

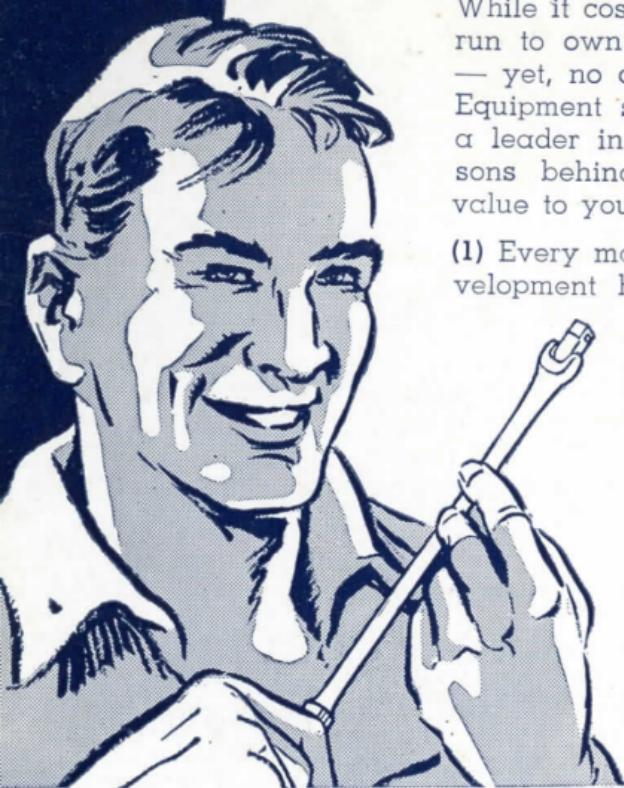
Handy Guide



**BLACKHAWK
WRENCHES**

You'll be proud to own

YOU'LL BE PROUD TO OWN BLACKHAWKS



While it costs no more in the long run to own Blackhawk Wrenches — yet, no other brand of Wrench Equipment so clearly stamps you a leader in your field. The reasons behind this extra **personal** value to you are:

- (1) Every major socket wrench development has come from Blackhawk and you automatically share that leadership.
- (2) Their extra-utility and design features, just naturally make a good workman better.
- (3) Their silver-bright finish can be kept permanent—stamping you as a modern, orderly, well-equipped, efficient mechanic!

5 BIG REASONS

**Why You Should Buy Blackhawk Wrenches
from Your JOBBER Salesman!**

- 1. DOUBLE GUARANTEE** — Blackhawk products are sold only through selected, legitimate Jobbers with high ratings. You have Blackhawk's factory guarantee **plus** the guarantee of an established Distributor.
- 2. QUICK SERVICE** is yours because the Blackhawk Jobber keeps a stock of all popular Blackhawk Wrenches.
- 3. NO "FLY-BY-NIGHT" SOURCE OF SUPPLY** — Your Blackhawk Jobber Salesman represents a local institution that is permanently interested in your good-will. He is not an individual "here-today-gone-tomorrow" tool peddler.
- 4. ESTABLISH YOUR CREDIT** — get a rated business connection, save time, cut out extra charges and build your future by buying from your Blackhawk Jobber.
- 5. WORLD-WIDE DISTRIBUTION** — Wherever you are, it's easy to buy Blackhawk Wrenches. Hundreds of Blackhawk Distributors and thousands of Jobber Salesmen serve every business community in the United States, Canada and throughout the world.

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Buy With Confidence . . . Blackhawk Wrenches are GUARANTEED!

All Blackhawk Wrenches are guaranteed against defects in both material and workmanship. Free replacements or repairs will be made on all wrenches that do not stand up to this guarantee.

Replacements, naturally, cannot be made if inspection shows that handles or sockets have been hammered or used with Stillson Wrenches for extra leverage — handles or sockets have been ground thinner or changed in design — sockets have been used on over or under-sized nuts — undue leverage has been exerted — or, that wrenches have been worn out from use or employed for purposes other than intended.

FLAT RATE REPLACEMENTS OF WORN WRENCHES PROTECT YOUR INVESTMENT: — Wrenches which might not get free replacement under the liberal Blackhawk Guarantee, are in many cases still worth money to their owner. Worn or damaged Ratchets, Hinged Offsets and Universal Speeders are repaired and returned on a FLAT RATE charge. Blackhawk has systematized this service to supply speedy, economical repairs. Mail damaged wrenches through the Blackhawk Distributor, or PREPAID direct to the Blackhawk factory with instructions, your name and return address.

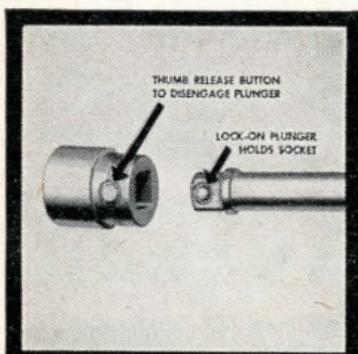
Only Blackhawk Wrenches Give You the Convenience of **THUMB-RELEASE LOCK-ON**

"LOCK-ON", Blackhawk's patented feature, makes interchangeable handles, sockets and attachments stay together like solid wrenches until you release them by pressing the "THUMB-RELEASE" button.

The "Lock-On" feature is furnished on all $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1" square drives. The "Thumb-Release" button is a part of all these drives with the lone exception of the $\frac{3}{8}$ " series which is served by the No. 34990 Release Key.



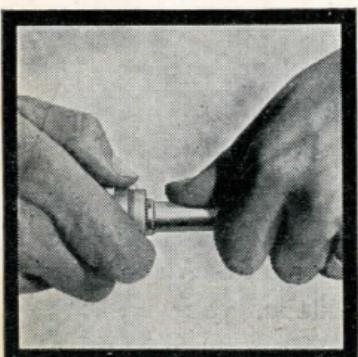
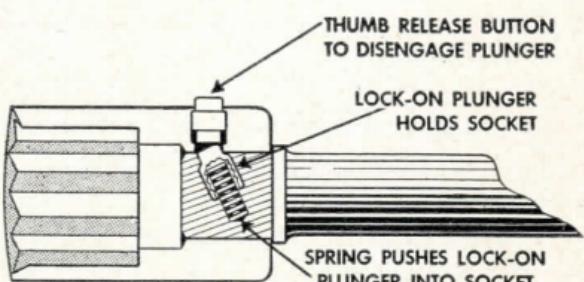
Patent Nos.
Registered
19,287
1,927,844



TO LOCK THE SOCKET ON THE HANDLE simply line up the "Thumb-Release" button in the socket wall with the "Lock-On" plunger of the handle. They then slide together.

CAN'T COME A PART —

Note from diagram at right the reasons why "Thumb-Release" Lock-On is so practical. The "Lock-On" plunger is on a slant so that the socket easily slides onto the drive. The spring then holds the plunger in a sure-grip position.



TO RELEASE hold socket and handle as at left — press the "Thumb-Release" button — and pull the socket off the handle. Cross-section above shows why the built-in "Thumb-Release" button can accomplish this action.

BLACKHAWK

handy

LOCK-ON Clicks Sockets, Handles and Attachments Into ONE SOLID TOOL . . .

. . . Easily Disengaged
by Pressing the "Thumb-
Release" Button!

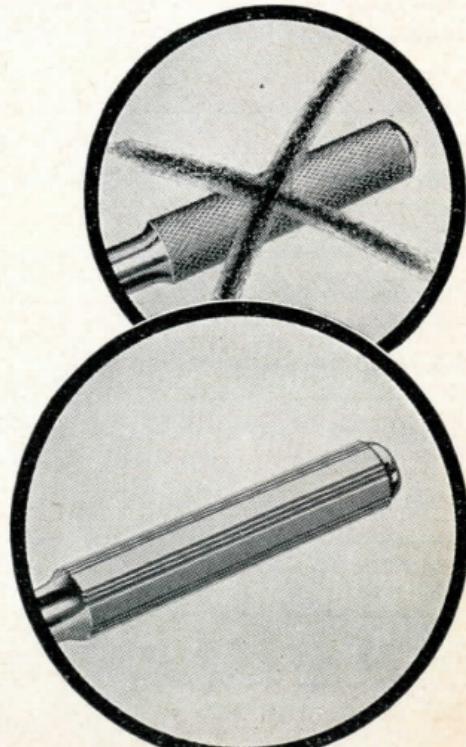
Blackhawk wrenches are not costly — but even if they were, experienced mechanics say they would gladly pay an extra price for the Thumb-Release "Lock-On" feature!

"Lock-On" saves time and temper. Sockets cannot stick in tight places, drop or slip off to cause damage or injury — a safety feature on overhead work or where sockets and attachments would cause extensive damage and loss of time if dropped in mechanism. This patented feature makes work fast, safe and sure. Thumb-Release "Lock-On" should not be confused with ordinary friction-ball grips or set-screw devices. Study the principle of "Lock-On" as described at the left — and for its contribution to your convenience and workmanship, insist that your socket wrenches have this patented feature!

Blackhawk Wrenches Give You **GRIPLINE**

The exclusive "Grip-line" design of Blackhawk handles looks good and has real utility. These "Griplines" are comfortable, give a firm grasp and wipe clean of grease and dirt . . . contrasted with unattractive cross-knurled grips that are hand-cutters and grease-holders.

You pay no penalty in buying Blackhawk wrenches with this modern "Gripline" design. But you gain comfort — and you can keep your wrenches in their original luster for years.



YOU GET MORE FOR YOUR MONEY

When You Buy
Blackhawk
Wrenches

AND HERE'S THE
PROOF!

*✓ check all
wrench lines*

Important Features You Should Get For Your Wrench Dollar

	BLACK HAWK	Line B	Line C	Line D	Line E	Line F	Line G
Thumb-Release "Lock-On"	YES★	★★					
Full Polished Chrome Plate	YES★	YES			YES		YES
Hot-Broached Sockets	YES★	YES				YES	YES
Free-Wheeling Ratchets	YES★						
Gripline Handles	YES★						
Extensions drilled to make T or L	YES★		YES			YES	
Double-Guarantee — Mfg. and Jobber	YES★		YES	YES		YES	YES
All Chips in sockets removed	YES★						YES
Wrench-Bench with Heavy Steel Top	YES★						
Pear Shaped, cutback sockets	YES★	SOME	SOME			YES	SOME
Controlled grain size in steel	YES★	YES					
Exclusive special analysis steels	YES★						
Two-length Ratchet	YES★		YES				
Double-Duty Range from $\frac{5}{16}$ " to $1\frac{1}{4}$ " in one series	YES★						
Extremely Thin, Straight Walls	YES★	YES	YES	SOME		YES	YES
Socket Stop on Extensions	YES★	YES	YES	YES	YES	YES	YES
Complete Wrench Assortments	YES★	YES	YES	YES	YES	YES	YES
Special Automotive Open-Ends	YES★						
Individual Name Plates on Cases and Stands	YES★						
Indicating Light on Tension Wrench	YES★	YES					
Complete socket range from $\frac{3}{16}$ " to $3\frac{1}{2}$ "	YES★	YES	YES				

* Originated by Blackhawk

★ ★ Only on 1" square drive

It's Easy To Understand THE BLACKHAWK NUMBERING SYSTEM!

Spend just a couple of minutes studying this page — and there'll never be a mystery in understanding Blackhawk Wrench numbers! It's the key to quick interpretation of catalog listings and will simplify your ordering and handling of Blackhawk Wrenches.

How To Tell THE DRIVE OF A BLACKHAWK SOCKET WRENCH BY ITS CATALOG NO.

Blackhawk Socket Wrenches are furnished in six series of square drives — one more than any other Wrench manufacturer. Each drive has its own series of numbers as listed below. The first numeral in the identification denotes the drive in "eighths". (Examples: No. 20,000 series — the "2" represents 2/8 or 1/4-inch square drive. No. 30,000 series up to, but not including No. 35,000 series — the "3" represents 3/8 or 3/8-inch square drive.)

20,000 SERIES — 1/4" Square Drive. Listed as "Extra-small series. Also called "Midget" drive.

30,000 SERIES — 3/8" Square Drive. Listed as "small" series. Can be replaced entirely by the 7/16" Drive "Nugget" series listed below.

35,000 SERIES — 7/16" Square Drive. Listed as "Nugget" Wrenches. Also called "Double-Duty" and the "New Standard" drive. Has same range and utility as must otherwise be secured by paying extra money to own wrenches in both 3/8" and 1/2" drives.

40,000 SERIES — 1/2" Square Drive. Listed as "Standard" Drive. Sometimes called the "Old Standard" because its utility is now completely replaced by the 7/16" "Nugget" drive which also does the job of the 3/8" drive.

60,000 SERIES — 3/4" Square Drive. Listed as "Heavy Duty" Drive.

80,000 SERIES — 1" Square Drive. Listed as "Extra-Heavy Duty" Drive.

How To Tell THE SIZE OF A SOCKET BY THE CATALOG NO.

Now that the numbering system for drives has been explained — here's the equally easy guide to the socket size. The **last two** numerals tell the size of socket opening (width across flats) in thirty-seconds of an inch. Examples: No. 40125 represents 25/32". No. 30010 represents 10/32" or 5/16".

TURN THIS PAGE FOR THE
AMAZING STORY ON 7/16"
DRIVE "NUGGETS"

Here is the Most Important development that has come to Socket Wrenches in 12 Years!

HEXITE STEEL CREATES NUGGETS

The amazing features of Nugget Socket Wrenches have their beginning in the steel they are made of — HEXITE!

Blackhawk found this steel 13 years ago and used it on power-driven sockets because it was the only material that could successfully withstand the grueling work on the assembly lines of General Motors, Ford, Chrysler and others.

After many years, Blackhawk learned the secrets of machining Hexite Steel **on a cost basis** that would warrant introduction into the general mechanics' field.

This steel is so strong that it was foolish to think of using it on $\frac{1}{2}$ " drive wrenches since excess bulk was **unnecessary**. So Blackhawk introduced "Nuggets" — with a $\frac{7}{16}$ " drive that does the work of both the $\frac{3}{8}$ " and $\frac{1}{2}$ " series.



**3/8" DRIVE
SOCKET**

of which mechanics once were forced to buy sizes from $\frac{1}{8}$ " up to $\frac{3}{4}$ " along with handles (which duplicated many socket sizes and handles in the $\frac{1}{2}$ " series). Now all replaced by $\frac{7}{16}$ " drive.

**7/16" DRIVE
SOCKET**

furnished in complete range of sizes from $\frac{1}{8}$ " to $1\frac{1}{4}$ " with handles and attachments — completely replacing both $\frac{3}{8}$ " and $\frac{1}{2}$ " series.

**1/2" DRIVE
SOCKET**

of which mechanics once were forced to buy sizes from $\frac{1}{8}$ " to $1\frac{1}{4}$ " with handles (which duplicated many socket sizes and handles in the $\frac{3}{8}$ " series). Now replaced by $\frac{7}{16}$ " drive.

TO YOUNG MECHANICS: It costs less to buy $\frac{7}{16}$ " drive Nugget Socket Wrenches because **one set** does the work of sets in both the $\frac{3}{8}$ " and $\frac{1}{2}$ " series. Be sure to start out right — take a tip from mechanics who have used Nuggets — build your equipment on the $\frac{7}{16}$ " Double-Duty drive!

TO MECHANICS WHO ALREADY HAVE WRENCH EQUIPMENT: It will pay you to get rid of your $\frac{3}{8}$ " and $\frac{1}{2}$ " drive wrenches and switch to Nuggets! You are now **replacing** sockets and handles in **two sets** . . . and this high replacement cost would soon equal your investment in lighter, stronger, more efficient Nuggets.

NUGGETS ARE AS STRONG AS 1/2" TOOLS



Diagram above shows cross-sections of a bar of Hexite Steel and a bar of Chrome Vanadium. Although the Hexite bar is $33\frac{1}{3}\%$ smaller, it has the same strength of the larger piece of Chrome Vanadium. That's why Nuggets (made of Hexite) are smaller but equally as strong as $\frac{1}{2}$ " tools made of ordinary high-grade alloy steels.

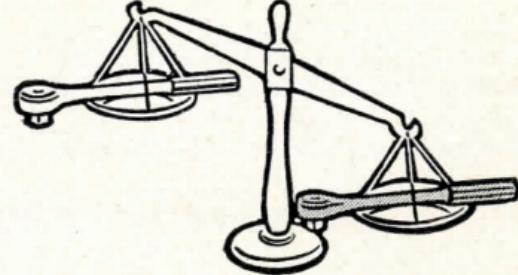
AS SLIM AS 3/8" TOOLS



Diagram above shows drive ends of smallest sockets in $\frac{3}{8}$ " and $\frac{7}{16}$ " series. Both sockets have same $\frac{11}{16}$ " outside diameter — PROOF that Nuggets get in everywhere and replace $\frac{3}{8}$ " series.

LIGHTER THAN 1/2" TOOLS

Because Nuggets are made of Hexite steel, they can be made slimmer and lighter. Nugget handles average 31% lighter than $\frac{1}{2}$ " square drive tools. A 50-piece Nugget Set is 50% lighter and 52% less bulky than a combination set of $\frac{3}{8}$ " and $\frac{1}{2}$ " square drive wrenches of similar utility.



NUGGETS SAVE YOU 42%



Figure it out yourself — add up the cost of handles and sockets in both $\frac{3}{8}$ " and $\frac{1}{2}$ " series. Subtract the total price of Nugget handles and sockets — the difference is YOUR BIG SAVING!

A mechanic would buy 50% MORE TOOLS in $\frac{3}{8}$ " and $\frac{1}{2}$ " series to have the same range of 50 Nuggets. While Nuggets save 42% in COST — they also SAVE TIME because all tools are interchangeable. (Over 23,000 combinations can be made with a 50-piece Nugget set.)

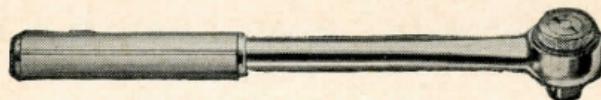
Nuggets not only do the work of $\frac{3}{8}$ " and $\frac{1}{2}$ " wrenches — but actually handle many jobs not adapted to either of the old drives.

How To Pick Out "NUGGETS" from This Book:

$\frac{7}{16}$ " drive Nugget sockets carry identifying numbers in the 35,000 series . . . Handles and attachments are in the 39,000 series . . . and are listed right along with other drives. Nugget sets are shown separately on pages 25 to 31.

RATCHETS

Broached-Tooth Design



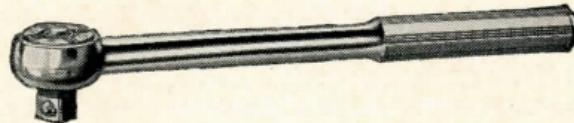
These four new ratchets have the radically new Blackhawk "Broached-Tooth" Ratchet design (patent applied for); permitting extremely small head design—instant reverse—unparalleled strength.

No.	Dia. of Head	Length	"Lock-On" Drive
24991	3/4"	4 1/2"	1/4"
*39996	1 1/4"	7"—9 1/2"	7/16"
69987	2 5/16"	18"	3/4"
89987	3 1/4"	9"	1 "

*Two-length reversible handle—See next page for description.

No. 89989 Tubular Handle only for use with No. 89987 Ratchet, 35 3/4" long, 1 9/16" I.D., 1 7/8" O.D.

Free Wheeling Design



Famous Free Wheeling Ratchets give 212 bites to a circle—instant release—no play. See next page.

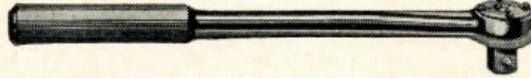
34981	1 3/16"	7 "	3/8"
39997	1 15/16"	9 9/16"	7/8"
49997	1 5/8"	10 1/2"	1/2"

Other Reversible Designs



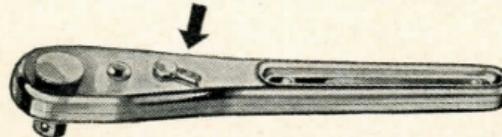
Dual purpose mechanical ratchet wrench—has 1/4" square opening in back of lug for refrigerator valves.

34999	1"	6 1/2"	3/8"
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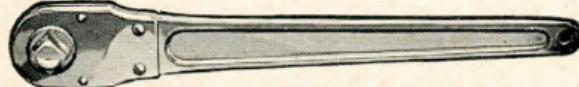
Small head mechanical design—smooth action—instant reverse.

49996	1 3/8"	10 1/2"	1/2"
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Moderate price favorite. Instant reverse. Cadmium plated—unusually tough and strong.

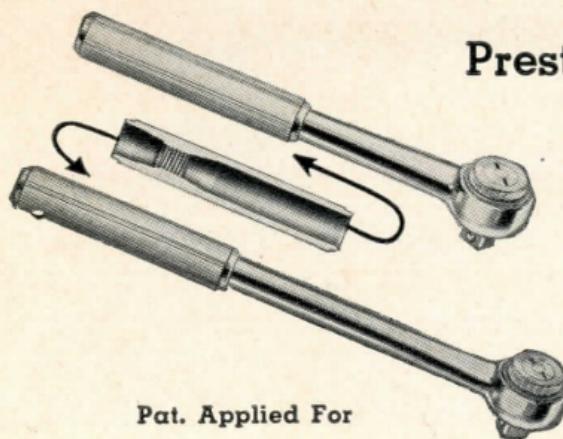
49977	...	10"	1/2"
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For all heavy and extra-heavy duty work. Instantly reversible by shifting patented lug.

69999	2 1/4"	16"	3/4"
89999	2 7/8"	20"	1 "

EXCLUSIVE FEATURES OF BLACKHAWK RATCHETS



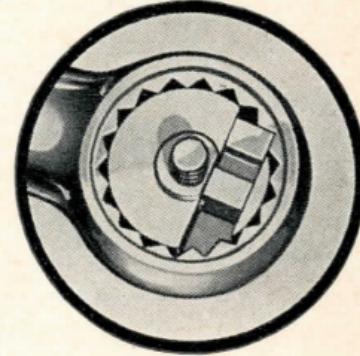
Presto! Chango!

39996 Ratchet has 9½" length for leverage—unscrewing and reversing handle grips gives 7" length for tight places. Really a "Double Duty

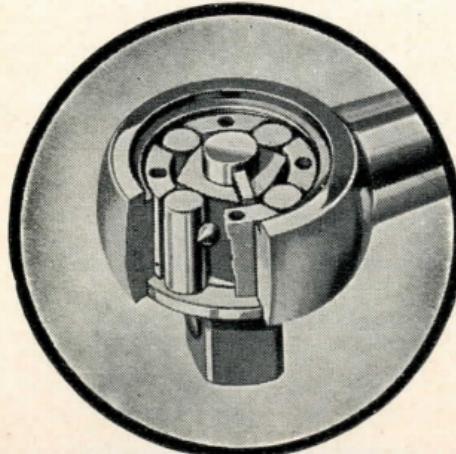
Nugget Ratchet"—eliminates need for two ratchets as required in combination ¾" and ½" square drive series. A time saver, that cuts your tool investment, too.

BUILT LIKE A BOX WRENCH

Scientific design of ratchet mechanism in 24991, 39996, and 49996 gives modern mechanics the ideal wrench. Wedge action equalizes strain within head. Teeth are broached into the heat treated alloy forging for unparalleled strength with fine action. Has instant reverse—extremely small head.



212 BITES TO A CIRCLE



The Free Wheeling Ratchets Nos. 34981, 39997, 49997 are for the man who wants the finest action built. Cut-through view shows rollers held in contact by spring backed plunger—free wheeling action gives full utility to every swing—no teeth—noiseless—no back lash—reverses with flick of the wrist.

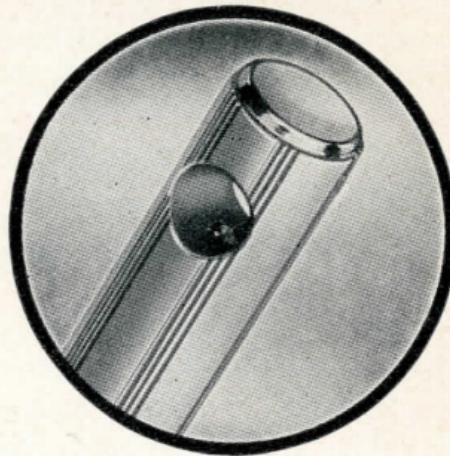
Guide

WRENCHES

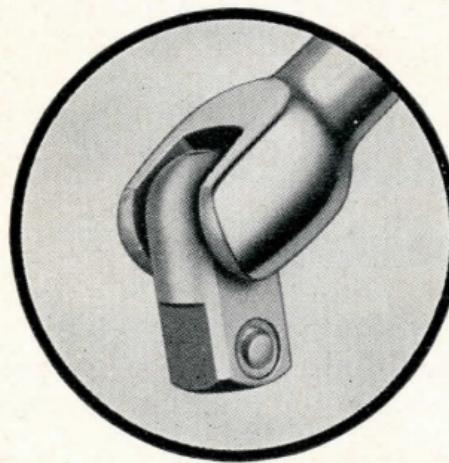
EXCLUSIVE FEATURES OF BLACKHAWK OFFSET HANDLES

Triple Duty

Hinged offset handles can be given extra leverage by inserting the proper handle bar in the hollow grips. The cross hole permits use of the same handle bars to make Tee or L Wrenches. Spring backed ball holds drive lug firmly in any position. Useful for breaking nuts loose, running them off or on and for final tightening. Handy on all repair jobs.



Tough as a Wrestler's Neck

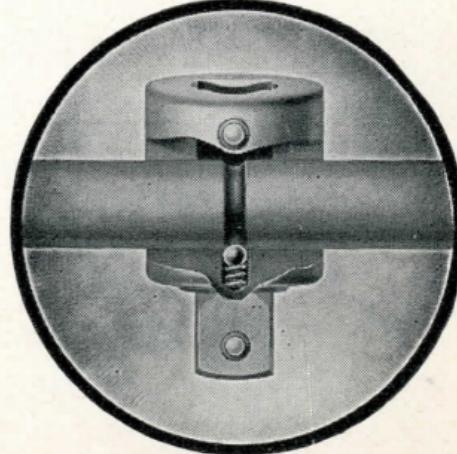


The clean cut, efficient design of these offsets makes them the best for real close clearance work. Notice the extremely thin throat — narrow hinge joint — and fine finish. The use of the strongest alloys gives unusual strength with perfect balance.

You should have one in your tool kit for both ordinary and mean jobs.

Two Tools in One

Blackhawk Sliding Tee Handles have a real convenience with the spring-backed ball in the heads. This engages with the groove in center of bar handle to prevent slipping — and makes a firm Tee. The same spring-backed ball holds the head in other positions as well, and prevents it from turning due to the weight of the socket. A definite time saver on heavy work, particularly on overhead jobs.



HANDLES

Hinged Offset Handles



These Blackhawk offset handles are built to give greater leverage—more power—and easier work. Trim in appearance—balanced—and tough enough for all work.

No.	Stock Dia.	Length	"Lock-On" Sq. Dr.
24999	1/4"	5 "	1/4"
34986	7/16"	8 "	5/8"
39984	7/16"	7 1/4"	7/16"
39985	1/2"	15 "	7/16"
49984	5/8"	11 5/8"	1/2"
49985	5/8"	15 5/8"	1/2"
49988	5/8"	18 "	1/2"
69998	13/16"	19 "	3/4"

Sliding Offsets



Bar has sliding head—stops at each end of bar prevent head from becoming detached and lost. See illustration lower right on next page.

49982	9/16"	11"	1/2"
69997	13/16"	18"	3/4"

Handle Bars



Have center groove to make T or L wrenches from corresponding hinged offsets, sliding tees and extensions. Can be used for extra leverage in all hinged offsets and ratchets with hollow Gripline handles. Handle bars fit handles in square drive range shown.

No.	Stock Dia.	Length	Used with Handles in this Drive
24997	7/32"	4"	1/4"
34985	5/8"	7"	5/8"
39986	7/16"	9"	7/16"
49986	9/16"	11"	1/2"
69996	13/16"	18"	3/4"
89997	1 1/8"	23"	1 "

EXTENSIONS

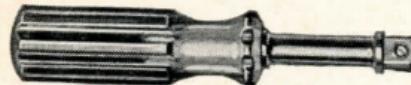
Selected Alloy Steel—Chromium Plated

Extensions increase the reach and adaptability of all handles. For work in out-of-the-way places, Blackhawk Extensions with the exclusive "Lock-On" feature save time and have the rigidity of one-piece construction. Attachments can't drop off to become lost or cause damage.

Extensions with Revolving Grip



No.	Stock Dia.	Length	"Lock-On" Sq. D.
39983	9/16"	6"	7/16"
49983	5/8"	6"	1/2"
49987	5/8"	10"	1/2"



Grip Handles

Useful for running nuts down in tight places. No. 34997 can be used as extension, T or L handle.

Handle				
24995	Plastic	5 "		1/4"
34997	Steel	5 "		3/8"
39976	Amber	5 7/16"		7/16"

Standard Extension Bars



Cross drilled to make T or L wrenches with handle bars.

*24996	1/4"	5"	1/4"	39981	1 5/8"	18"	7/16"
34988	7/16"	3"	3/8"	49990	9/16"	10"	1/2"
34987	7/16"	5"	3/8"	69995	13/16"	8 1/2"	3/4"
34984	7/16"	10"	3/8"	69994	13/16"	17"	3/4"
34983	7/16"	18"	3/8"	89996	1 1/4"	9"	1 "
39982	1 1/2"	3"	7/16"	89995	1 1/4"	18"	1 "
39990	1 1/2"	10"	7/16"				

*Does not have Lock-On.



Sliding Tees

Use with				
49989	49986	2"		1/2"
89998	89997	4"		1 "

All Extra Heavy Duty Series—1" square drive are finished in Cadmium.

Ratchet Replacement Drive Lugs

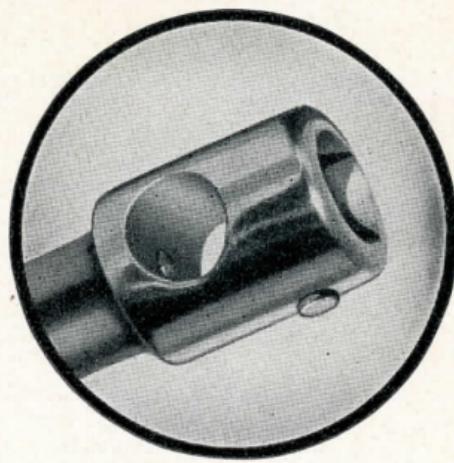
No.	"Lock-On" Sq. Dr.	For use with Ratchet No.
49995	1/2"	Old 9811
69989	3/4"	916N & 69999
89994	1 "	89999
T13	1/2"	Old 911X

EXCLUSIVE FEATURES OF BLACKHAWK EXTENSIONS

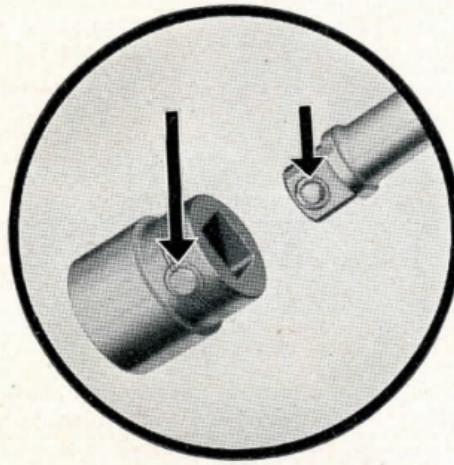
More Than An Extension

Blackhawk extensions do double-duty service — cross hole in head takes handle bar to make either Tee or Ell handles. Spring-backed ball holds bar in all positions firmly.

This construction does away with need for separate Tees or Ells — you make up your own and get more tools for your money.



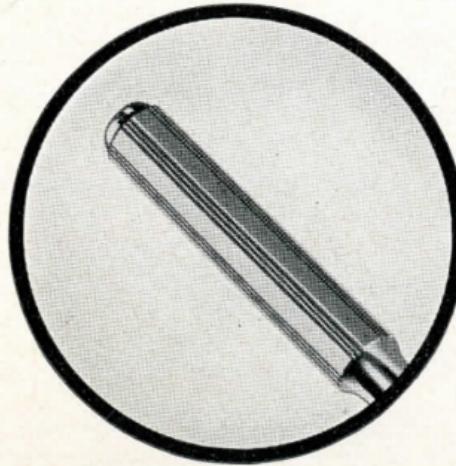
Like a Solid Tool



CLICK! — and it's a rigid assembly. Press the thumb release button (with the slipperiest hands) and it's apart. You can increase the length and usefulness of all Blackhawk tools by combining handles, extensions and sockets to fit any job. No need to buy expensive "specials", when the Lock-On makes all combinations permanent — until you press the thumb release button.

LOCK-ON prevents dropping sockets in assemblies or losing them on the floor. Adds safety when heavy sockets are used overhead.

Easy on the Hands

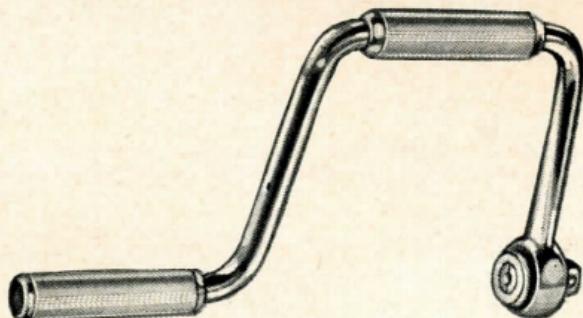


Why blister your hands on old fashioned, hard-to-clean, knurled grips? Gripline handles are built on the principle of modern tires — with the non-skid acting only in the needed direction. Plenty of firm grip for tough pulls, but easily cleaned from the dirtiest job.

Found on Blackhawk ratchets, speeders, extensions, braces, offsets and hinged offsets.

SPEEDERS

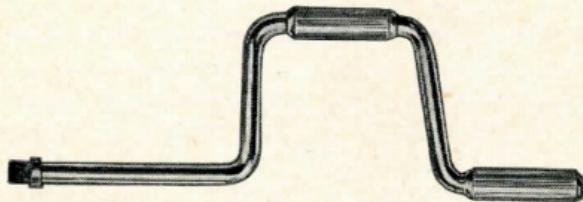
NEW! Ratchet Brace



The latest addition to the now famous Double-Duty Nugget line — a Ratchet Brace that brings assembly line speed to close quarter work. Has the Blackhawk "Broached-Tooth" Ratchet design, with 18 teeth and instant reverse. Overall length is 9 $\frac{3}{8}$ " with a 4" sweep.

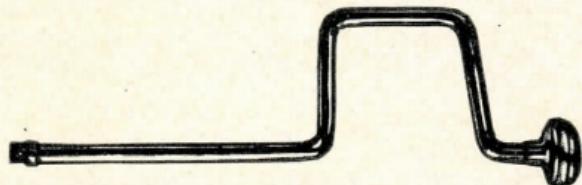
No. 39995 Ratchet Brace, $\frac{7}{16}$ " Square Drive.

Brace Handles



No.	Stock Dia.	Length	Shank	Sweep	"Lock-On" Sq. Dr.
39999	$\frac{13}{32}$ "	16 $\frac{1}{2}$ "	7 $\frac{3}{8}$ "	4 "	$\frac{7}{16}$ "
49992	$\frac{1}{2}$ "	15 $\frac{5}{8}$ "	6 "	4 $\frac{3}{4}$ "	$\frac{1}{2}$ "
49999	$\frac{1}{2}$ "	19 "	8 $\frac{1}{2}$ "	4 $\frac{3}{4}$ "	$\frac{1}{2}$ "

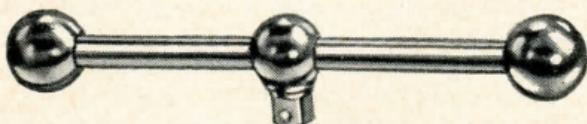
Speeder Handles



†34982	$\frac{7}{16}$ "	18"	10"	3 $\frac{3}{8}$ "	$\frac{3}{8}$ "
49994	$\frac{1}{2}$ "	19"	11"	4 $\frac{3}{4}$ "	$\frac{1}{2}$ "

†No. 34982 does not have ball end grip. End grip is similar to No. 49992.

Speed Ball Handle

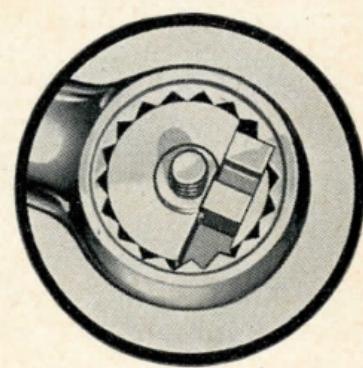


Comfortable ball grips give extra leverage to T or L combinations—also develop centrifugal speed-up power for spinning down nuts and bolts. 8" long overall.

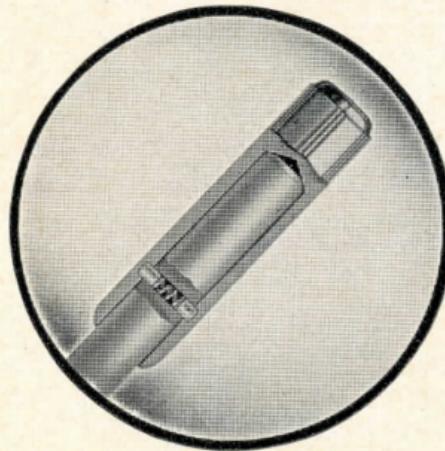
No. 39977 Speed Ball Handle, $\frac{7}{16}$ " Square Drive.

EXCLUSIVE FEATURES OF BLACKHAWK BRACES AND SPEEDERS

No. 39995 Ratchet Brace (illustrated on previous page) has the same "Broached-Tooth" Ratchet design used in regular Blackhawk Ratchets. This "Broached-Tooth" design (patent applied for) permits extremely small head, only $1\frac{1}{4}$ " diameter—exceptional strength—instant reverse. It's $\frac{7}{16}$ " square drive gives it real "Double-Duty" utility.



No Stick — No Jam — No Loss!

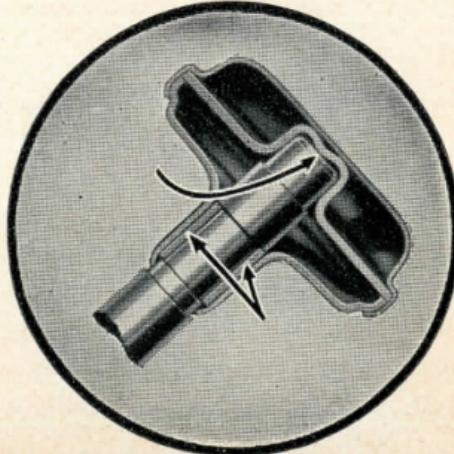


Further proof of Blackhawk's quality design and manufacturing is in the patented grip construction on brace handles. These never stick, jam or come off—but continue to work smoothly and easily for the life of the tool.

This hidden value is typical of the way Blackhawk gives you more for your money in wrench equipment.

Hardened Bearings for Smoothness

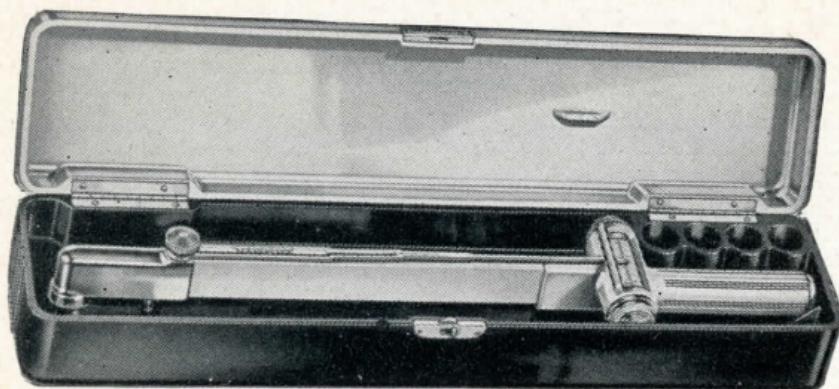
A Blackhawk Speeder is always a speeder—never hindered by a sticky grip. Arrows indicate the hardened thrust and sleeve bearings that prolong life—cut down wear and prevent sticking. Note how the grip is spun onto the handle—it can't come off.



TORKFLASH

TENSION WRENCHES

Practical - - Accurate - - Simple



Prevent Human Guesswork

You can't throw a baseball the same distance every time—neither can you tighten nuts the same every time—without **TORKFLASH**. A necessity for use on all automotive, tractor, Diesel, aircraft and assembly jobs where there are bolted assemblies. Unbalanced tightening of cylinder heads, bearings, counterweights, clutch plates, etc., can cause untold damage. Many "mysterious" motor troubles yield to a "Torkflash Treatment".

A Precision Tool—Permanently accurate because Torkflash directly measures deflection of alloy spring steel shaft. No delicate internal parts, friction lever devices, dials or bearings.

Moderately Priced. Simplicity of design and quantity production puts Torkflash where every individual mechanic can afford one. **Buy your own** and be sure of top-notch work.

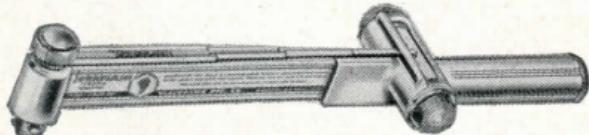
Choice of Two Lengths



LONG—Nos. 39975 and 49975—These time proven, dependable models are 17" overall and are available in $\frac{7}{16}$ " and $\frac{1}{2}$ " square drives. Have Five-In-One Scale (see next page) with range up to 1,600 inch-pounds. Red and black bakelite case helps sell your work.

No. 39975 Double-Duty, $\frac{7}{16}$ " Square Drive.

No. 49975 Standard, $\frac{1}{2}$ " Square Drive.



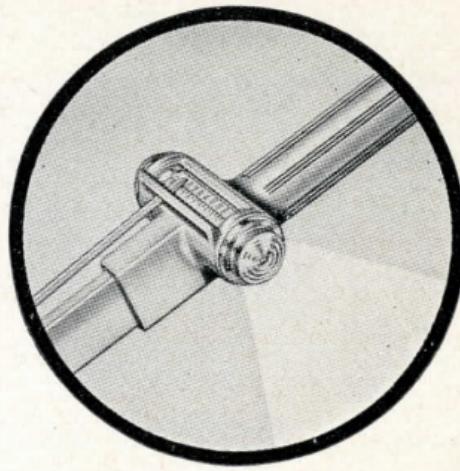
SHORT—No. 39968—Designed along same sound engineering principles as the longer Torkflashes. Its 12 $\frac{1}{2}$ " length makes it especially adaptable to aircraft and automotive spark plug work. Maximum measuring range of 600 inch-pounds or 50 foot-pounds. Has special scale for spark plug work (see next page). Available only with $\frac{7}{16}$ " square drive, packed in cardboard container.

No. 39968 Double-Duty, $\frac{7}{16}$ " Square Drive.

EXCLUSIVE FEATURES OF BLACKHAWK TORKFLASH

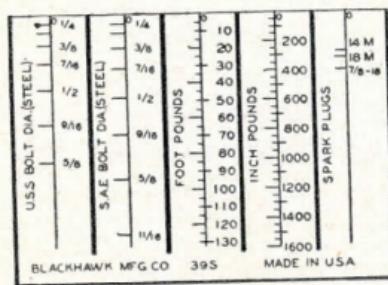
Unique Flash Signal

Just set your Torkflash pointer to the desired tension and pull! A bright flash of light automatically tells you when to stop — effective day or night — no dials to read — simplicity itself. Smash-proof plastic lens. Ordinary penlight bulb and battery easily removed and replaced. If bulb or battery fail on the job, wrench can be read like ordinary types.



Five-In-One Scale

(furnished on Nos. 39975 and 49975)



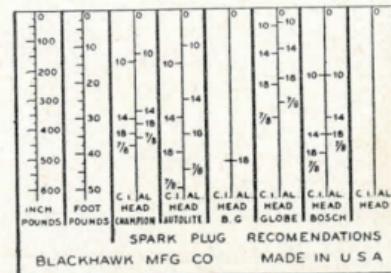
No need to be a mathematician to properly set and use Blackhawk Torkflash Tension Wrenches, Nos. 39975 and 49975. Scale has all "Units of Measure" found in service and instruction manuals. Cylinder is rotated by finger pressure to show desired scale. When

no tension recommendations in either inch-pounds or foot-pounds are available — simply determine U.S.S. or S.A.E. bolt diameter and set pointer accordingly. For checking pre-set tensions direct — reverse revolving scale unit so that pointer pulls from zero to tension of bolts. Range up to 1,600 inch-pounds.

Spark Plug Scale

(furnished on No. 39968)

The special Spark Plug Scale of the short Torkflash, No. 39968, operates the same as the regular Five-In-One Scale. It is calibrated in both inch-pounds and foot-pounds. Has the manufacturer's recommendations for Champion, Auto-Lite, B. G. Corporation, Globe and American Bosch spark plugs. Recommendations are given for both cast iron and aluminum cylinder heads. Range — 600 inch-pounds or 50 foot-pounds.



SOCKETS

Extra Small Series— $\frac{1}{4}$ " Square Drive

Thin Wall Double Hex Sockets

Socket No.	Socket Size	Socket No.	Socket Size	Socket No.	Socket Size
†21006	$\frac{3}{16}$ "	†21009	$\frac{9}{32}$ "	21012	$\frac{3}{8}$ "
†21007	$\frac{7}{32}$ "	†21010	$\frac{5}{16}$ "	21014	$\frac{7}{16}$ "
†21008	$\frac{1}{4}$ "	†21011	$\frac{11}{32}$ "		

†Single Hex.

Small Series— $\frac{3}{8}$ " Square "Lock-On" Drive

Thin Wall Double Hex Sockets

†30008	$\frac{1}{4}$ "	30014	$\frac{7}{16}$ "	30020	$\frac{5}{8}$ "
†30010	$\frac{5}{16}$ "	30016	$\frac{1}{2}$ "	30022	$\frac{11}{16}$ "
30012	$\frac{3}{8}$ "	30018	$\frac{9}{16}$ "	30024	$\frac{3}{4}$ "

†Single Hex.

Nugget Series— $\frac{7}{16}$ " Square "Lock-On" Drive

Thin, Double Hexagon Sockets

†35110	$\frac{5}{16}$ "	35119	$\frac{19}{32}$ "	35128	$\frac{7}{8}$ "
†35111	$\frac{3}{2}$ "	35120	$\frac{5}{8}$ "	35130	$\frac{15}{16}$ "
35112	$\frac{3}{8}$ "	35121	$\frac{21}{32}$ "	35132	1 "
35114	$\frac{7}{16}$ "	35122	$\frac{11}{16}$ "	35134	$1\frac{1}{16}$ "
35116	$\frac{1}{2}$ "	35124	$\frac{3}{4}$ "	35136	$1\frac{1}{8}$ "
35118	$\frac{9}{16}$ "	35126	$\frac{13}{16}$ "	35140	$1\frac{1}{4}$ "

†Single Hex.

Standard Series— $\frac{1}{2}$ " Sq. "Lock-On" Drive

Thin Wall Double Hex Sockets

40112	$\frac{3}{8}$ "	40121	$\frac{21}{32}$ "	40130	$\frac{15}{16}$ "
40114	$\frac{7}{16}$ "	40122	$\frac{11}{16}$ "	40131	$\frac{31}{32}$ "
40116	$\frac{1}{2}$ "	40124	$\frac{3}{4}$ "	40132	1 "
40118	$\frac{9}{16}$ "	40125	$\frac{25}{32}$ "	40134	$1\frac{1}{16}$ "
40119	$\frac{19}{32}$ "	40126	$\frac{13}{16}$ "	40136	$1\frac{1}{8}$ "
40120	$\frac{5}{8}$ "	40128	$\frac{7}{8}$ "	40140	$1\frac{1}{4}$ "

Heavy Duty Series— $\frac{3}{4}$ " Sq. "Lock-On" Drive

Double Hex Sockets

60028	$\frac{7}{8}$ "	60040	$1\frac{1}{4}$ "	60052	$1\frac{5}{8}$ "
60030	$\frac{15}{16}$ "	60042	$1\frac{5}{16}$ "	60054	$1\frac{11}{16}$ "
60031	$\frac{31}{32}$ "	60044	$1\frac{3}{8}$ "	60056	$1\frac{3}{4}$ "
60032	1 "	60046	$1\frac{7}{16}$ "	60058	$1\frac{13}{16}$ "
60034	$1\frac{1}{16}$ "	60048	$1\frac{1}{2}$ "	60060	$1\frac{7}{8}$ "
60036	$1\frac{1}{8}$ "	60050	$1\frac{9}{16}$ "	60064	2 "
60038	$1\frac{3}{16}$ "				

Extra Heavy Duty Series—1" Sq. "Lock-On" Dr.

Single Hex Sockets

80034	$1\frac{1}{8}$ "	80060	$1\frac{7}{8}$ "	80082	$2\frac{9}{16}$ "
80036	$1\frac{1}{8}$ "	80062	$1\frac{5}{16}$ "	80084	$2\frac{5}{8}$ "
80040	$1\frac{1}{4}$ "	80064	2 "	80086	$2\frac{11}{16}$ "
80042	$1\frac{5}{16}$ "	80066	$2\frac{1}{16}$ "	80088	$2\frac{3}{4}$ "
80044	$1\frac{3}{8}$ "	80068	$2\frac{1}{8}$ "	80090	$2\frac{1}{16}$ "
80046	$1\frac{7}{16}$ "	80070	$2\frac{3}{16}$ "	80092	$2\frac{7}{8}$ "
80048	$1\frac{1}{2}$ "	80072	$2\frac{1}{4}$ "	80094	$2\frac{15}{16}$ "
80050	$1\frac{9}{16}$ "	80074	$2\frac{5}{16}$ "	80096	3 "
80052	$1\frac{5}{8}$ "	80076	$2\frac{3}{8}$ "	80098	$3\frac{1}{16}$ "
80054	$1\frac{1}{8}$ "	80078	$2\frac{7}{16}$ "	80100	$3\frac{1}{8}$ "
80056	$1\frac{3}{4}$ "	80080	$2\frac{1}{2}$ "	*80112	$3\frac{1}{2}$ "
80058	$1\frac{3}{16}$ "				

*Produced only on special order.

Most Complete Line of Sockets In Standard Production

Electric furnace alloys for strength—hot broached for fit—full chrome plate defeats rust and corrosion. "Lock-On" feature prevents sockets from sticking to nuts, falling into assemblies or getting lost on the job. $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1" square drives all have Thumb-Release button for fast disconnecting.

Left—The 21006 $\frac{1}{4}$ " drive series. Useful on all small work.

Right—Representative double square socket, available from $\frac{3}{16}$ " to $1\frac{5}{8}$ ".



No. 21006
Series



Nos. 21106, 30108,
40210 Series



No. 40112 Series

Right—Small $\frac{3}{8}$ " drive sockets run up to $\frac{3}{4}$ " in size, are useful in confined places with short $\frac{3}{8}$ " drive handles.

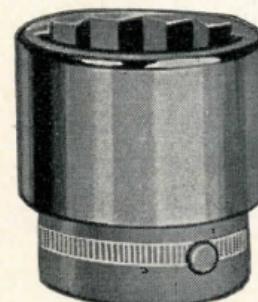


No. 30008 Series

Left—Standard $\frac{1}{2}$ " drive sockets run from $\frac{3}{8}$ " to $1\frac{1}{4}$ ", will withstand maximum pull of big $\frac{1}{2}$ " handles.

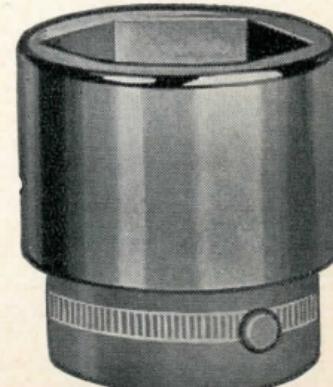


No. 35110
Series



No. 60028
Series

Heavy duty $\frac{3}{4}$ " square Lock-On drive—range from $\frac{7}{8}$ " to 2"—for industrial, tractor, Diesel, bus, truck work, etc.



No. 80034
Series

Extra heavy duty 1" square Lock-On drive sockets—complete range—cadmium plated—for industry and construction.

SOCKETS

Thin Wall Double Square Sockets

Extra Small Series— $\frac{1}{4}$ " Square Drive

No.	Socket Size	No.	Socket Size	No.	Socket Size
21106	$\frac{3}{16}$ "	21110	$\frac{5}{16}$ "	21114	$\frac{7}{16}$ "
21108	$\frac{1}{4}$ "	21112	$\frac{3}{8}$ "	21116	$\frac{1}{2}$ "

†Single Square.

Small Series— $\frac{3}{8}$ " Sq. "Lock-On" Drive

30108	$\frac{1}{4}$ "	30112	$\frac{3}{8}$ "	30116	$\frac{1}{2}$ "
30110	$\frac{5}{16}$ "	30114	$\frac{7}{16}$ "		

Nugget Series— $\frac{7}{16}$ " Sq. "Lock-On" Drive

35212	$\frac{3}{8}$ "	35216	$\frac{1}{2}$ "	35220	$\frac{5}{8}$ "
35214	$\frac{7}{16}$ "	35218	$\frac{9}{16}$ "	35224	$\frac{3}{4}$ "

Standard Series— $\frac{1}{2}$ " Sq. "Lock-On" Drive

40210	$\frac{5}{16}$ "	40220	$\frac{5}{8}$ "	40230	$\frac{15}{16}$ "
40212	$\frac{3}{8}$ "	40222	$\frac{11}{16}$ "	40232	1 "
40214	$\frac{7}{16}$ "	40224	$\frac{3}{4}$ "	40234	$1\frac{1}{16}$ "
40216	$\frac{1}{2}$ "	40225	$\frac{33}{32}$ "	40236	$1\frac{1}{8}$ "
40218	$\frac{9}{16}$ "	40226	$\frac{13}{16}$ "	40240	$1\frac{1}{4}$ "
40219	$\frac{19}{32}$ "	40228	$\frac{7}{8}$ "		

Hvy. Duty Series— $\frac{3}{4}$ " Sq. "Lock-On" Drive

60128	$\frac{7}{8}$ "	60136	$1\frac{1}{8}$ "	60146	$1\frac{7}{8}$ "
60132	1 "	60140	$1\frac{1}{4}$ "	60152	$1\frac{5}{8}$ "
60134	$1\frac{1}{16}$ "				

Extra Heavy Duty Series

Single Square—1" Square "Lock-On" Drive

81034	$1\frac{1}{16}$ "	81044	$1\frac{3}{8}$ "	81052	$1\frac{5}{8}$ "
81036	$1\frac{1}{8}$ "	81046	$1\frac{7}{16}$ "	81058	$1\frac{3}{16}$ "
81038	$1\frac{3}{16}$ "	81050	$1\frac{9}{16}$ "	81064	2 "
81040	$1\frac{1}{4}$ "				

Extra Deep Thin Wall Double Hex Sockets

Small Series— $\frac{3}{8}$ " Sq. "Lock-On" Drive

30314	$\frac{7}{16}$ "	30318	$\frac{9}{16}$ "	30322	$\frac{11}{16}$ "
30316	$\frac{1}{2}$ "	30320	$\frac{5}{8}$ "	30324	$\frac{3}{4}$ "

Nugget Series— $\frac{7}{16}$ " Sq. "Lock-On" Drive

35314	$\frac{7}{16}$ "	35322	$\frac{11}{16}$ "	35330	$\frac{15}{16}$ "
35316	$\frac{1}{2}$ "	35324	$\frac{3}{4}$ "	35332	1 "
35318	$\frac{9}{16}$ "	35326	$\frac{13}{16}$ "	35336	$1\frac{1}{8}$ "
35320	$\frac{5}{8}$ "	35328	$\frac{7}{8}$ "		

Aero-Type— $\frac{7}{16}$ " Square "Lock-On" Drive

35518	$\frac{9}{16}$ "	35524	$\frac{3}{4}$ "	35530	$\frac{15}{16}$ "
35520	$\frac{5}{8}$ "	35526	$\frac{13}{16}$ "	35532	1 "
35522	$\frac{11}{16}$ "	35528	$\frac{7}{8}$ "	35536	$1\frac{1}{8}$ "

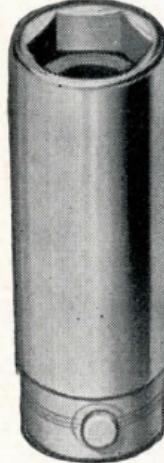
Standard Series— $\frac{1}{2}$ " Sq. "Lock-On" Drive

40316	$\frac{1}{2}$ "	40324	$\frac{3}{4}$ "	40330	$\frac{15}{16}$ "
40318	$\frac{9}{16}$ "	40326	$\frac{13}{16}$ "	40332	1 "
40320	$\frac{5}{8}$ "	40328	$\frac{7}{8}$ "	40336	$1\frac{1}{8}$ "
40322	$\frac{11}{16}$ "				

SOCKETS & SETS

30314
Series35314
Series40316
Series

NEW! Aero-Type Spark Plug Sockets

35518
Series

To complete and make Nuggets a truly "Double-Duty" and all purpose line—Blackhawk now offers special Aero-Type Spark Plug Sockets, 35518 Series, for automotive and aircraft work. These new sockets have replaceable synthetic rubber inserts to cushion insulators from shock or twist—prevent wasteful damage. Sockets are single hex and shallow broached. Range from $\frac{9}{16}$ " to 1" socket openings. Equipped with patented "Lock-On" and $\frac{7}{16}$ " Double-Duty Drive.

No. 19082 Socket Set

NEW! Five selected spark plug sockets to handle all cars up to and including 1941 models. Extra deep, thin wall double hex $\frac{1}{2}$ " series. Range from $\frac{5}{8}$ " to 1". Packed in strong cardboard box.

Contents: One each Nos. 40320, 40322, 40326, 40328 and 40332.

No. 19082 Spark Plug Socket Set.

Pressed Steel Spark Plug Sockets

No. 3327 For all $\frac{13}{16}$ " hexagon spark plugs.

No. 3329 For all $\frac{7}{8}$ " and 1" hexagon spark plugs.

No. 3731 For all $\frac{15}{16}$ " and $1\frac{1}{8}$ " hexagon spark plugs.

ATTACHMENTS

Universal Joint Sockets

Double Hex— $\frac{3}{8}$ " Square "Lock-On" Drive

No.	Socket Size	No.	Socket Size	No.	Socket Size
30212	$\frac{3}{8}$ "	30218	$\frac{9}{16}$ "	30222	$\frac{11}{16}$ "
30214	$\frac{7}{16}$ "	30220	$\frac{5}{8}$ "	30224	$\frac{3}{4}$ "
30216	$\frac{1}{2}$ "				

Double Hex— $\frac{7}{16}$ " Nugget "Lock-On" Drive

35412	$\frac{3}{8}$ "	35418	$\frac{9}{16}$ "	35422	$\frac{11}{16}$ "
35414	$\frac{7}{16}$ "	35420	$\frac{5}{8}$ "	35424	$\frac{3}{4}$ "
35416	$\frac{1}{2}$ "				

Universal Joint

A greatly improved series of universal joints—stock diameter reduced offering more clearance—accessibility increased by shortened over-all length.

No.	Sq. Drive	No.	Sq. Drive	No.	Sq. Drive
24993	$\frac{1}{4}$ "	39978	$\frac{7}{16}$ "	69993	$\frac{3}{4}$ "
34993	$\frac{3}{8}$ "	49978	$\frac{1}{2}$ "		

Screw Driver Bits and Attachments

No.	Type	Blade	Length	"Lock-On" Sq. Drive
34991	Tie Rod	$\frac{11}{16}$ " x $\frac{1}{16}$ "	1 "	$\frac{3}{8}$ "
39979	Tie Rod	$\frac{13}{16}$ " x $\frac{1}{8}$ "	$1\frac{1}{4}$ "	$\frac{7}{16}$ "
49979	Tie Rod	$\frac{15}{16}$ " x $\frac{7}{16}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "
34994	Regular	.025" x $\frac{3}{16}$ "	$3\frac{1}{4}$ "	$\frac{3}{8}$ "
34995	Regular	.035" x $\frac{1}{4}$ "	$3\frac{1}{4}$ "	$\frac{3}{8}$ "
34996	Regular	.040" x $\frac{11}{32}$ "	$3\frac{1}{4}$ "	$\frac{3}{8}$ "
39965	Regular	.035" x $\frac{1}{4}$ "	$3\frac{1}{4}$ "	$\frac{7}{16}$ "
39966	Regular	.040" x $\frac{11}{32}$ "	$3\frac{1}{4}$ "	$\frac{7}{16}$ "
39970	Phillips	No. 1	$3\frac{1}{4}$ "	$\frac{7}{16}$ "
39971	Phillips	No. 2	$3\frac{1}{4}$ "	$\frac{7}{16}$ "
39972	Phillips	No. 3	$3\frac{1}{4}$ "	$\frac{7}{16}$ "

"Lock-On" Release Key

Used for releasing all "Lock-On" Sockets in present $\frac{3}{8}$ " and old style $\frac{1}{2}$ " and $\frac{3}{4}$ " square drive series.

No. 34990 Length $4\frac{1}{8}$ ".

Adaptors

Adaptor No.	Female Opening	Used on Handles to	Male End
39964	$\frac{3}{8}$ "	Increase to	$\frac{7}{16}$ "
49974	$\frac{7}{16}$ "	Increase to	$\frac{1}{2}$ "
69992	$\frac{1}{2}$ "	Increase to	$\frac{3}{4}$ "
79998	$\frac{3}{4}$ "	Increase to	$\frac{7}{8}$ "
89993	$\frac{3}{4}$ "	Increase to	1 "
89992	$\frac{7}{8}$ "	Increase to	1 "
34964	$\frac{7}{16}$ "	Decrease to	$\frac{3}{8}$ "
39974	$\frac{1}{2}$ "	Decrease to	$\frac{7}{16}$ "
49991	$\frac{3}{4}$ "	Decrease to	$\frac{1}{2}$ "
69988	$\frac{7}{8}$ "	Decrease to	$\frac{3}{4}$ "
69990	1 "	Decrease to	$\frac{3}{4}$ "
79999	1 "	Decrease to	$\frac{7}{8}$ "
+69991	$\frac{3}{4}$ "	Decrease to	$\frac{1}{2}$ "

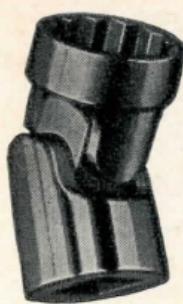
[†]Ratchet drive adaptor.

BLACKHAWK

Handy

FEATURES OF ATTACHMENTS

More Uses for Your Present Set

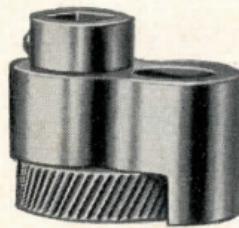
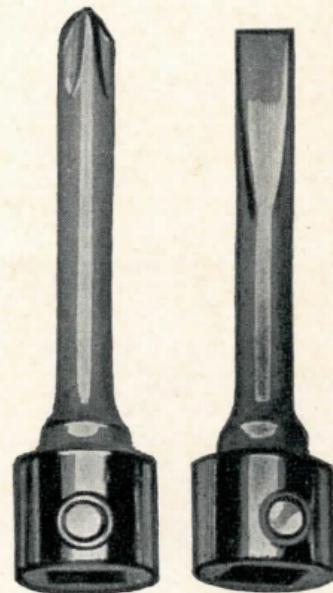


Blackhawk Universal Joint Sockets will operate through a full 45° angle and are extremely compact. Internal springs hold socket in any position necessary to get at bolts under fenders, on oil pans, starter motors and other such hard-to-get-at places. "Lock-On" feature makes socket and handle assemblies as good as solid tools — no falling off or sticking in work.

Eleven sizes of screw driver bits for $\frac{3}{8}$ " and $\frac{7}{16}$ " "Nugget" drives. Included are both regular, Phillips, and tie rod bits. Very useful on magneto, carburetor, ignition and front end work. Phillips models are good for trim work, headlights and many assemblies.

Alert mechanics find these bits, when used with ratchets, bring real speed to awkward offset screw driver jobs.

Can also be used with speeders, extensions and hinged offsets to get in almost anywhere.



Stud Extractor

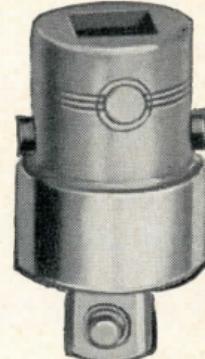
New Nugget Stud Extractor and setter. Simplified design with only two parts — provides "pipe wrench" grip on studs. Gear is forced into contact by handle action. Teeth are milled and heat treated. In addition to extreme range, new design functions with gear flat against head or block. Handles $\frac{1}{4}$ " to $\frac{5}{8}$ " studs.

No. 39980 — $\frac{7}{16}$ " Square Drive Stud Extractor.

No. 49980 — $\frac{1}{2}$ " Square Drive Stud Extractor, handles studs from $\frac{1}{4}$ " to $\frac{3}{4}$ ".

Ratchet Adaptors

Now! Reversible Ratchet Adaptors no bigger than average sockets. Bring real speed to tension wrenches — new close quarter efficiency to speeders, offset and Tee handles. Adaptors have exclusive "Broached-Tooth" ratchet design — minimum outside diameter — instant finger-touch reverse — are equipped with "Lock-On".



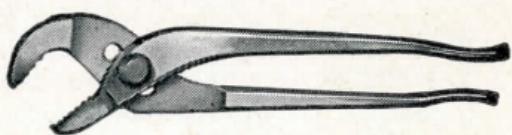
No.	Outside Dia.	Overall Length	Number Teeth	Number Pawls	"Lock-On" Drive
39967	$1\frac{3}{16}$ "	$1\frac{15}{16}$ "	18	1	$\frac{7}{16}$ "
49973	$1\frac{3}{16}$ "	$2\frac{7}{16}$ "	18	1	$\frac{1}{2}$ "
69967	$2\frac{3}{16}$ "	$3\frac{1}{8}$ "	24	1	$\frac{3}{4}$ "
*89986	$2\frac{7}{8}$ "	$4\frac{1}{2}$ "	28	2	1 "

*Cadmium Plated.

SERVICE PLIERS

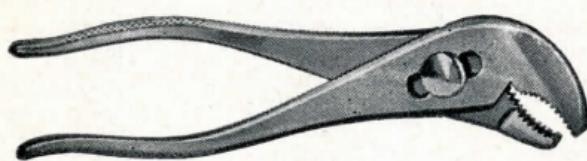
Water Pump Pliers

Thin tough jaws that work in restricted quarters—long balanced handles curved to fit the hand—five position adjustment with a range from 0 to 2". This handy plier is adaptable for use on water pump packing nuts, brake adjustments and wherever a sure grip is needed. Every service station operator should have one. Length, 9½"—Thickness of jaws, ¼".



No. 12001 Water Pump Pliers.

Universal Pliers



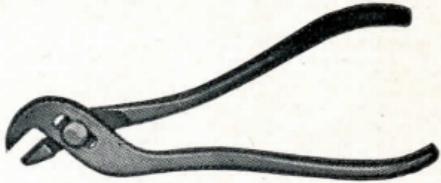
Ideal for a wide range of uses including adjustments on water pumps, head - light

mountings, brakes, battery terminals, etc. Three position jaw adjustment. Length, 7". Thickness of jaws, 9/32".

No. 12002 Universal Pliers.

Universal Ignition Pliers

New style Ignition Pliers, with full-fashioned grip handle. Easier to hold and to work with. Especially adapted to ignition service, carburetors, radios and other small jobs. Three position slip jaws provide opening range from 0 to 5/8". Thickness of jaws, 1/8"; over-all length, 5".



No. H1 Universal Ignition Pliers.

Brake Spring Pliers

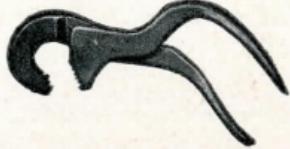
For removing and replacing internal brake springs. Length, 12½".



No. 2583 Brake Spring Pliers.

Steel-Draulic Brake Pliers

Fits all Steel-Draulic Brakes.
Over-all length 5 1/4".



No. 2581 Steel-Draulic Brake Pliers.

USER PRICE LIST

Prices shown in this schedule were made effective October 1st, 1941, and are subject to change without notice. Wrench buyers will of course recognize that the National Defense Program can affect deliveries, the nature of the product, and the availability of certain types of wrenches. Circumstances beyond the manufacturer's control may alter normal conditions throughout the general Wrench Industry. Such possibilities are suggested to avoid misunderstandings during this period.

No.	List Price	User Net	Page		No.	List Price	User Net	Page
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SETS

8CB	11.39	6.83	47		52W	153.45	92.07	32
8LR	12.27	7.36	47		70R	137.28	82.37	32
10ND	7.70	4.62	36		74DD	234.30	140.58	30
12ED	85.47	51.28	38		†74DD	239.80	143.88	30
12SD	41.03	24.62	38		74DS	185.90	111.54	30
13CB	22.55	13.53	47		†74DS	189.20	113.52	30
13LR	24.31	14.59	47		74R	155.87	93.52	30
13PD	16.39	9.83	37		77K	70.35	42.21	27
14BD	57.97	34.78	38		77L	54.62	32.77	27
14CA	27.45	16.47	30		90R	172.70	103.62	32
16QD	27.34	16.40	37		99DD	224.40	134.64	26
17K	22.28	13.37	28		†99DD	229.90	137.94	26
17TD	22.94	13.76	37		100DS	238.26	142.96	33
18CB	8.09	4.85	48		†100DS	242.00	145.20	33
18LR	8.86	5.31	48		100W	211.10	132.66	32
18ND	16.28	9.77	36		19056	3.36	2.01	40
20CB	3.69	2.21	48		19057	10.34	6.20	40
20LR	4.13	2.48	48		19058	12.76	7.66	40
22CB	5.89	3.53	48		19059	6.60	3.96	41
22LR	6.66	3.99	48		19074	11.22	6.73	41
30CD	52.69	31.61	37		19082	8.97	5.38	21
30K	56.87	34.12	28		19086	6.49	3.89	41
50B	107.80	64.68	28					

CASES

CA	6.88	4.13	12-28		N-5	1.54	.92	36
CB	13.53	8.12	11-26		Q	3.99	2.38	27
DD	145.20	87.12	10-25		R	36.30	21.78	22-25
†DD	155.10	93.06	10-25		T	2.20	1.32	12-27
DS	77.55	46.53	23-25		W	53.90	32.34	22-26
†DS	90.75	54.45	23-25		19508	26.40	15.84	12
E	11.55	6.93	28					

LOOSE WRENCHES

E-2	.64	.39	48		3327	.77	.46	21
E-3	.64	.39	48		3329	.77	.46	21
E-4	.64	.39	48		3731	.77	.46	21
E-5	.64	.39	48		4020	.64	.39	46-47
E-6	.99	.59	48		4028	1.56	.94	46-47
E-7	.81	.48	48		4033C	2.75	1.65	46-47
E-8	.81	.48	48		4721	.69	.42	46-47
E-9	.81	.48	48		4723	.80	.48	46-47
E-10	.81	.48	48		4725	1.05	.63	46-47
E-11	1.27	.76	48		4725B	1.16	.69	46-47
H-1	2.26	1.35	24		4727	1.27	.76	46-47
H-10	.69	.42	48		4729	1.54	.92	46-47
H-12	.69	.42	48		4730A	1.93	1.16	46-47
H-14	.75	.45	48		4731A	2.04	1.22	46-47
H-16	.75	.45	48		4735A	3.30	1.98	46-47
H-18	.81	.48	48		4737	3.80	2.28	46-47
T-13	.39	.23	12		5204X	4.84	2.90	44
100A	1.10	.66	48		5204Z	5.39	3.23	44
100B	1.10	.66	48		5206	10.89	6.53	45
151	5.39	3.23	43		5220	.72	.43	44
152	2.81	1.68	43		5222	.72	.43	44
200AB	1.98	1.19	48		5224	.72	.43	44
420	.86	.52	48		5226	.72	.43	44
422	.86	.52	48		5228	.72	.43	44
424	.92	.55	48		5401	1.54	.92	45
426	1.16	.69	48		5434	2.86	1.72	45
2581	3.14	1.88	24		5440	2.86	1.72	45
2583	4.13	2.48	24		5448	3.30	1.98	45

*West Coast Prices Apply in Arizona, California, Idaho, Nevada, Oregon, Utah and Washington.

USER PRICE LIST

Prices Subject to Change Without Notice

No.	List Price	User Net	Page	No.	List Price	User Net	Page
LOOSE WRENCHES—Continued							
12001	2.81	1.68	24	15697	12.38	7.43	42
12002	2.81	1.68	24	15698	16.06	9.64	42
15119	2.53	1.52	44	15699	17.49	10.49	42
15137	2.86	1.72	45	15700	18.37	11.02	42
15138	2.70	1.62	45	15701	19.25	11.55	42
15139	3.14	1.88	45	15710	3.25	1.95	42
15140	.66	.40	45	15711	3.25	1.95	42
15612	1.05	.63	40	15712	3.85	2.31	42
15613	1.10	.66	40	15713	3.85	2.31	42
15614	1.21	.73	40	15714	4.13	2.48	42
15619	1.82	1.09	40	15715	4.62	2.77	42
15620	2.09	1.25	40	15716	6.44	3.86	42
15622	1.21	.73	40	15717	6.44	3.86	42
15623	1.32	.79	40	15718	6.88	4.13	42
15624	1.60	.96	40	15719	6.88	4.13	42
15625	1.82	1.09	40	15720	7.98	4.79	42
15626	1.98	1.19	40	15721	8.36	5.02	42
15627	2.42	1.45	40	15722	8.80	5.28	42
15629	3.74	2.24	40	15723	10.12	6.07	42
15630	4.57	2.74	40	15724	10.12	6.07	42
15632	1.43	.86	40	15725	11.55	6.93	42
15633	1.76	1.06	40	15726	12.38	7.43	42
15634	1.87	1.12	40	15727	13.75	8.25	42
15635	2.20	1.32	40	15728	17.49	10.49	42
15636	2.53	1.52	40	15729	18.81	11.29	42
15637	2.97	1.78	40	15730	19.80	11.88	42
15638	4.68	2.81	40	15731	20.63	12.38	42
15639	5.34	3.20	40	15738	.99	.59	41
15641	.99	.59	41	15741	2.75	1.65	42
15642	.99	.59	41	15742	2.92	1.75	42
15643	1.10	.66	41	15743	4.13	2.48	42
15644	1.10	.66	41	15744	5.94	3.56	42
15645	1.16	.69	41	15745	9.08	5.23	42
15646	1.16	.69	41	15798	.88	.53	43
15647	1.38	.83	41	15829	5.01	3.00	40
15648	1.54	.92	41	15830	6.60	3.96	40
15649	1.76	1.06	41	15831	10.73	6.44	40
15650	1.93	1.16	41	15832	12.65	7.59	40
15651	2.09	1.25	41	15833	19.89	11.94	40
15652	2.53	1.52	41	21006	.50	.30	18
15659	1.87	1.12	41	21007	.50	.30	18
15660	2.48	1.49	41	21008	.50	.30	18
15680	2.97	1.78	42	21009	.50	.30	18
15681	2.97	1.78	42	21010	.50	.30	18
15682	3.41	2.05	42	21011	.50	.30	18
15683	3.41	2.05	42	21012	.50	.30	18
15684	3.69	2.21	42	21014	.50	.30	18
15685	4.13	2.48	42	21106	.50	.30	20
15686	5.34	3.20	42	21108	.50	.30	20
15687	5.34	3.20	42	21110	.50	.30	20
15688	6.44	3.86	42	21112	.61	.36	20
15689	6.44	3.86	42	21114	.61	.36	20
15690	6.71	4.03	42	21116	.61	.36	20
15691	6.99	4.19	42	24991	3.85	2.31	8
15692	7.15	4.29	42	24993	2.42	1.45	22
15693	8.80	5.28	42	24995	1.65	.99	12
15694	8.80	5.28	42	24996	1.16	.69	12
15695	10.45	6.27	42	24997	.28	.17	10
15696	11.00	6.60	42	24999	2.20	1.32	10

USER PRICE LIST

Prices Subject to Change Without Notice

No.	List Price	User Net	Page	No.	List Price	User Net	Page
LOOSE WRENCHES—Continued							
30008	.77	.46	18	35214	.88	.53	20
30010	.77	.46	18	35216	.88	.53	20
30012	.77	.46	16	35218	.88	.53	20
30014	.77	.46	18	35220	.99	.59	20
30016	.77	.46	18	35224	1.21	.73	20
30018	.77	.46	18	35314	1.49	.89	20
30020	.77	.46	18	35316	1.49	.89	20
30022	.88	.53	18	35318	1.49	.89	20
30024	.88	.53	18	35320	1.76	1.06	20
30108	.88	.53	20	35222	1.76	1.06	20
30110	.88	.53	20	35324	1.76	1.06	20
30112	.88	.53	20	35326	1.76	1.06	20
30114	.99	.59	20	35328	1.76	1.06	20
30116	.99	.59	20	35330	1.93	1.16	20
30212	2.86	1.72	22	35332	1.93	1.16	20
30214	2.86	1.72	22	35336	2.31	1.39	20
30216	2.86	1.72	22	35412	3.25	1.95	22
30218	2.86	1.72	22	35414	3.25	1.95	22
30220	3.03	1.82	22	35416	3.25	1.95	22
30222	3.19	1.91	22	35418	3.25	1.95	22
30224	3.19	1.91	22	35420	3.25	1.95	22
30314	.99	.59	20	35422	3.36	2.01	22
30316	.99	.59	20	35424	3.36	2.01	22
30318	1.10	.66	20	35518	1.87	1.12	20
30320	1.10	.66	20	35520	2.09	1.25	20
30322	1.27	.76	20	35522	2.09	1.25	20
30324	1.38	.83	20	35524	2.09	1.25	20
34964	.88	.53	22	35526	2.09	1.25	20
34981	7.81	4.69	8	35528	2.09	1.25	20
34982	2.37	1.42	14	35530	2.42	1.45	20
34983	2.75	1.65	12	35532	2.42	1.45	20
34984	1.98	1.19	12	39964	.88	.53	22
34985	.55	.33	10	39965	1.32	.79	22
34986	3.30	1.98	10	39966	1.32	.79	22
34987	1.65	.99	12	39967	6.88	4.13	23
34988	1.54	.92	12	39968	13.20	7.92	16
34990	.33	.20	22	39970	1.82	1.09	22
34991	.94	.56	22	39971	1.82	1.09	22
34992	1.38	.83	43	39972	2.04	1.22	22
34993	2.86	1.72	22	39974	.88	.53	22
34994	1.21	.73	22	39975	17.60	10.56	16
34995	1.21	.73	22	39976	2.20	1.32	12
34996	1.21	.73	22	39977	2.97	1.78	14
34997	1.87	1.12	12	39978	3.19	1.91	22
34999	4.62	2.77	8	39980	5.45	3.27	23
35110	.88	.53	18	39981	3.52	2.11	12
35111	.88	.53	18	39982	1.98	1.19	12
35112	.88	.53	18	39983	2.70	1.62	12
35114	.88	.53	18	39984	3.52	2.11	10
35116	.88	.53	18	39985	4.73	2.84	10
35118	.88	.53	18	39986	.55	.33	10
35119	.88	.53	18	39990	2.42	1.45	12
35120	.88	.53	18	39995	8.80	5.28	14
35121	.88	.53	18	39996	8.25	4.95	8
35122	.88	.53	18	39997	8.80	5.28	8
35124	1.05	.63	18	39999	2.86	1.72	14
35126	1.05	.63	18	40112	.88	.53	18
35128	1.05	.63	18	40114	.88	.53	18
35130	1.32	.79	18	40116	.88	.53	18
35132	1.32	.79	18	40118	.88	.53	18
35134	1.65	.99	18	40119	.88	.53	18
35136	1.87	1.12	18	40120	.88	.53	18
35140	2.09	1.25	18	40121	.88	.53	18
35199	.88	.53	43	40122	.88	.53	18
35212	.88	.53	20	40124	1.05	.63	18
				40125	1.05	.63	18
				40126	1.05	.63	18
				40128	1.05	.63	18
				40130	1.32	.79	18
				40131	1.32	.79	18

USER PRICE LIST

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No.	List Price	User Net	Page		No.	List Price	User Net	Page
LOOSE WRENCHES—Continued								
40132	1.32	.79	18		60134	2.53	1.52	20
40134	1.65	.99	18		60136	2.53	1.52	20
40136	1.76	1.06	18		60140	3.14	1.87	20
40140	1.87	1.12	18		60146	4.40	2.64	20
40199	.94	.56	43		60152	5.45	3.27	20
40210	.99	.59	20		69967	10.45	6.27	23
40212	.99	.59	20		69987	15.95	9.57	8
40214	.99	.59	20		69988	2.42	1.45	22
40216	.99	.59	20		69989	1.10	.66	12
40218	.99	.59	20		69990	3.19	1.91	22
40219	.99	.59	20		69991	1.54	.92	22
40220	.99	.59	20		69992	1.38	.83	22
40222	1.10	.66	20		69993	8.80	5.28	22
40224	1.10	.66	20		69994	4.18	2.51	12
40225	1.10	.66	20		69995	3.41	2.05	12
40226	1.27	.76	20		69996	1.65	.99	10
40228	1.32	.79	20		69997	4.40	2.64	10
40230	1.54	.92	20		69998	9.35	5.61	10
40232	1.54	.92	20		69999	11.39	6.83	8
40234	1.76	1.06	20		79998	2.20	1.32	22
40236	1.93	1.16	20		79999	2.42	1.45	22
40240	2.04	1.22	20		80034	2.53	1.52	18
40316	1.60	.96	20		80036	2.53	1.52	18
40318	1.60	.96	20		80040	2.64	1.58	18
40320	1.76	1.06	20		80042	2.64	1.58	18
40322	1.76	1.06	20		80044	2.64	1.58	18
40324	1.76	1.06	20		80046	2.97	1.78	18
40326	1.76	1.06	20		80048	3.41	2.05	18
40328	1.76	1.06	20		80050	3.41	2.05	18
40330	1.93	1.16	20		80052	3.85	2.31	18
40332	1.93	1.16	20		80054	4.29	2.57	18
40336	2.15	1.29	20		80056	4.62	2.77	18
49973	6.88	4.13	23		80058	4.95	2.97	18
49974	.88	.53	22		80060	5.61	3.37	18
49975	17.60	10.56	16		80062	5.94	3.56	18
49977	3.30	1.98	8		80064	6.27	3.76	18
49978	3.19	1.91	22		80066	7.26	4.36	18
49979	1.32	.79	22		80068	7.92	4.75	18
49980	4.29	2.57	23		80070	8.25	4.95	18
49982	2.31	1.39	10		80072	8.58	5.15	18
49983	2.53	1.52	12		80074	9.24	5.54	18
49984	4.51	2.71	10		80076	10.23	6.14	18
49985	4.95	2.97	10		80078	11.22	6.73	18
49986	.66	.40	10		80080	12.21	7.33	18
49987	2.97	1.78	12		80082	13.20	7.92	18
49988	5.28	3.17	10		80084	14.19	8.51	18
49989	1.32	.79	12		80086	15.18	9.11	18
49990	2.20	1.32	12		80088	16.17	9.70	18
49991	1.65	.99	22		80090	17.16	10.30	18
49992	3.30	1.98	14		80092	18.15	10.89	18
49994	3.03	1.82	14		80094	19.14	11.48	18
49995	.77	.46	12		80096	20.13	12.08	18
49996	7.59	4.55	8		80098	21.12	12.67	18
49997	8.80	5.28	8		80100	22.00	13.20	18
49999	3.41	2.05	14		80112	33.00	19.80	18
60028	1.49	.89	18		81034	3.85	2.31	20
60030	1.49	.89	18		81036	3.85	2.31	20
60031	1.49	.89	18		81038	3.85	2.31	20
60032	1.49	.89	18		81040	4.18	2.51	20
60034	1.71	1.02	18		81044	4.84	2.90	20
60036	1.71	1.02	18		81046	6.33	3.80	20
60038	1.71	1.02	18		81050	6.77	4.06	20
60040	1.93	1.16	18		81052	7.59	4.55	20
60042	1.93	1.16	18		81058	7.70	4.62	20
60044	1.93	1.16	18		81064	9.13	5.48	20
60046	2.09	1.25	18		89986	20.35	12.21	23
60048	2.09	1.25	18		89987	23.65	14.19	8
60050	2.42	1.45	18		89989	7.70	4.62	8
60052	2.42	1.45	18		89992	2.75	1.98	22
60054	2.86	1.72	18		89993	2.64	1.58	22
60056	2.86	1.72	18		89994	2.20	1.32	12
60058	3.30	1.98	18		89995	7.15	4.29	12
60060	3.30	1.98	18		89996	6.05	3.63	12
60064	4.13	2.48	18		89997	2.97	1.78	10
60128	2.42	1.45	20		89998	3.52	2.11	12
60132	2.42	1.45	20		89999	17.60	10.56	8

SELL YOURSELF WITH MODERN WRENCH EQUIPMENT



Be A "Sales-Minded" Mechanic

Today, you have to show people you're good, as well as be that way. The successful mechanic sells himself as well as his work.

People trade with efficient looking shops, where they feel their cars will be serviced correctly, without lost time. When they see the mechanic roll up a DD wrench bench and start to work with every tool at his fingertips, instead of rooting around under the bench, you can figure who gets the business.

Blackhawk has built up complete units of streamlined tools and cases—which serve the double purpose of **SELLING** your work, and helping you do it FASTER, more EFFICIENTLY.

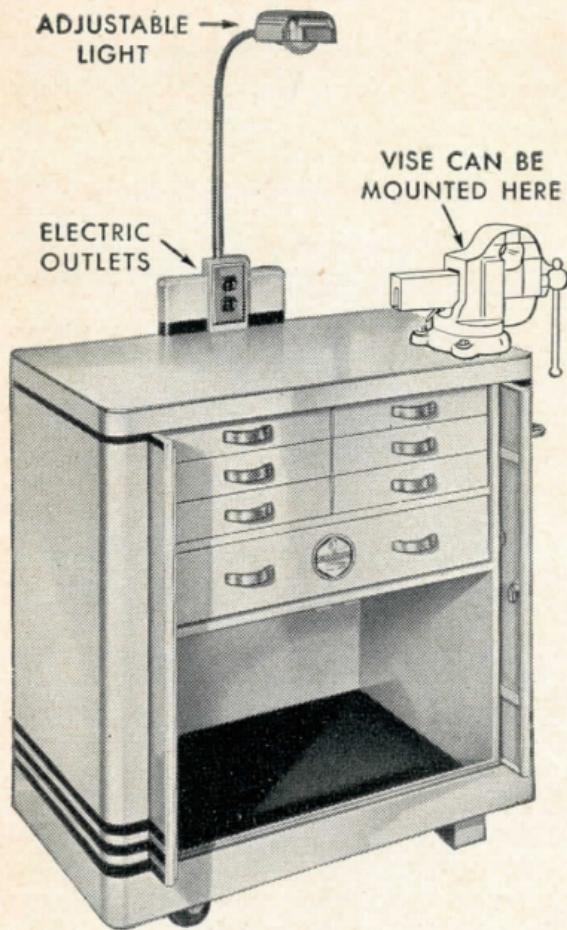
Realizing that many men will want to buy these on a budget basis, Blackhawk has worked out several means of ownership. Ask your jobber salesman for details.

Guide

WRENCHES

NUGGET SETS

99DD Wrench Bench & Nugget Set



Here's the "flagship" of the Nugget fleet — the 99DD! Complete with 53 selected double-duty Nuggets in the DD stand — the most practical, ultra-modern portable wrench set ever designed.

The DD stand is a combination wrench cabinet and work table with ample drawer space and a solid $\frac{1}{8}$ " steel work top. Includes adjustable work light, electrical outlets and "disappearing" doors equipped with

tumbler lock. Stand is made of heavy-gauge steel with red baked-enamel finish and chrome trimmings.

Stand is 32 $\frac{1}{2}$ " wide, 17 $\frac{1}{2}$ " deep and 34" high with 3" toe space. All seven drawers have chromium-plated pull handles. Bottom compartment is roomy for bulky tools, electric drills, etc. A chromium plated handle on right side of stand is used when rolling stand on its two rubber-tired wheels. End of stand with chrome pull handles has two fixed legs—giving stand same rigidity as work bench.

Protect Your Investment

Note how rolling doors close to lock up wrenches and equipment. Vise can be mounted on one end of the reinforced solid-steel work top. Blackhawk Engineers "thought of everything" when the 99DD Wrench Bench was designed.

Shop Owners — Attention!

Dress up your back shop with these attractive and profit producing wrench assortments. Better tools mean better workmanship. Appearances count these days when customers are taking their business to the shop that displays efficient and modern equipment.

There is no finer way to produce new business and keep old customers coming back than to point out a well equipped shop. And Blackhawk wrench chests and stands will more than do their share.

See Page 29 for Contents of Set.

BLACKHAWK

Handy

NUGGET SETS

Nos. 77K and 77L

Here are the sets thousands have bought as their "starter" on Nuggets. 77L includes 26 most essential Nugget wrenches in the CB case. 77K is the same as 77L but includes the remarkable Torkflash tension wrench.

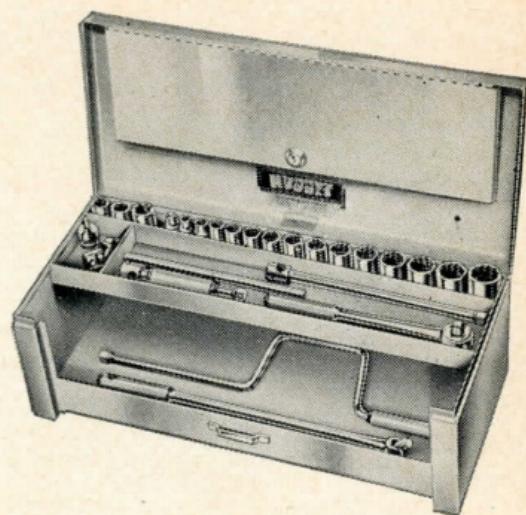
The attractive roomy CB chest has practical drop-cover design. Size 20½" long, 8½" wide, 6½" high. Plenty of extra room for hammers, pliers and other tools—plus later addition of Nugget "fill-ins." Handles all automotive service and is especially ideal for work on Ford and Chevrolet—also serves trucks, modern tractors and industrial machines.

The 26 Nuggets—with their $\frac{7}{16}$ " double duty square drive—do all the work of 41 regular $\frac{3}{8}$ " and $\frac{1}{2}$ " square drive tools (see diagram below). Figure the saving yourself—comparing the attractive 77L price with total cost of $\frac{3}{8}$ " and $\frac{1}{2}$ " tools in ANY quality line.

For List of Wrenches in Set, see Page 29.

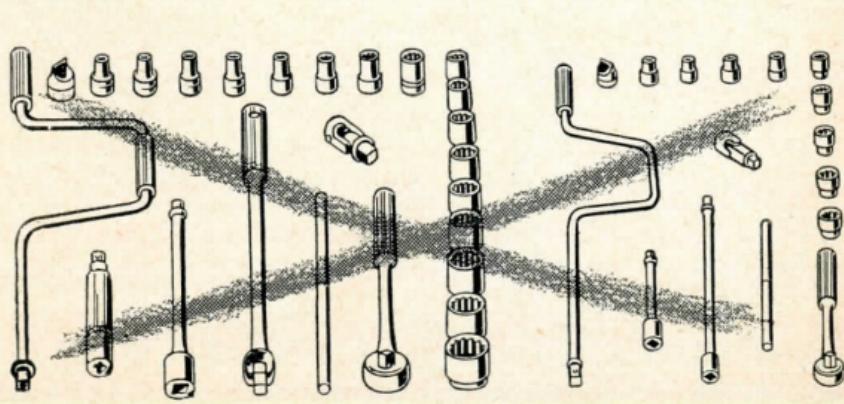
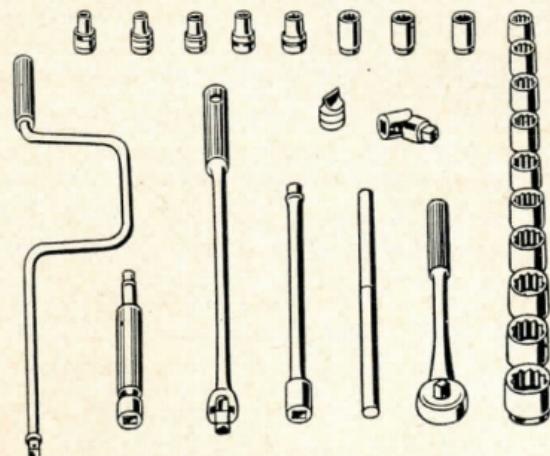
No. 77L Set Complete.

No. 77K Set Complete, (Includes Torkflash).



26 Nuggets
in 77L

Replace 41
Tools in $\frac{3}{8}$ "
and $\frac{1}{2}$ " Drives

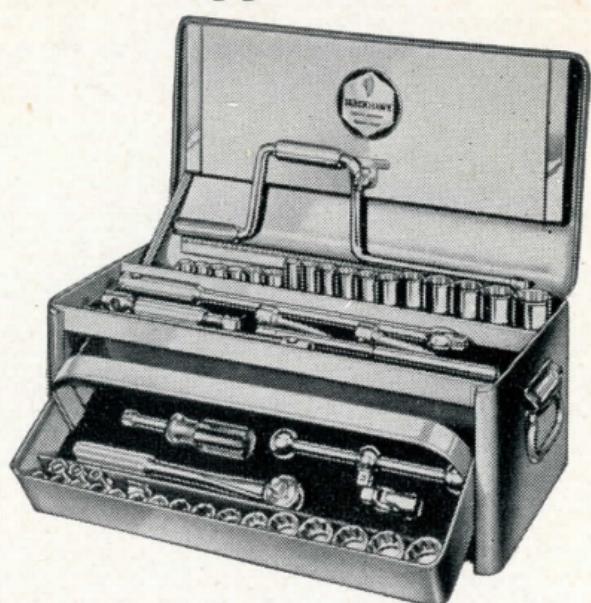


NUGGET SETS

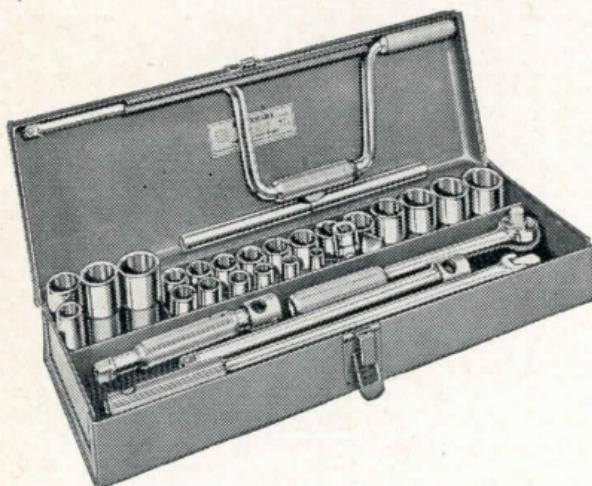
No. 50B Nugget Set

A compact set of 50 Nuggets for complete service. Full socket range from $\frac{5}{16}$ " to $1\frac{1}{16}$ ". Includes double square, double hex, long deeps and Universal Joint sockets. No. 19508 steel case is red enameled, chrome trimmed, $18\frac{5}{8}$ " long, $7\frac{3}{4}$ " high and $9\frac{1}{2}$ " wide. Free individual name plate, furnished to all owners, fits in back of tumbler lock.

No. 50B Set. 50 Nuggets in No. 19508 Case.



No. 30K Nugget Set



Thirty piece general utility assortment. Includes double hex, double square and long deep sockets plus 8 basic handles and attachments. Red enameled CA case (size $20\frac{1}{8}$ " long x $7\frac{3}{8}$ " wide x $5\frac{1}{2}$ " high) is compact home for these brilliant performers.

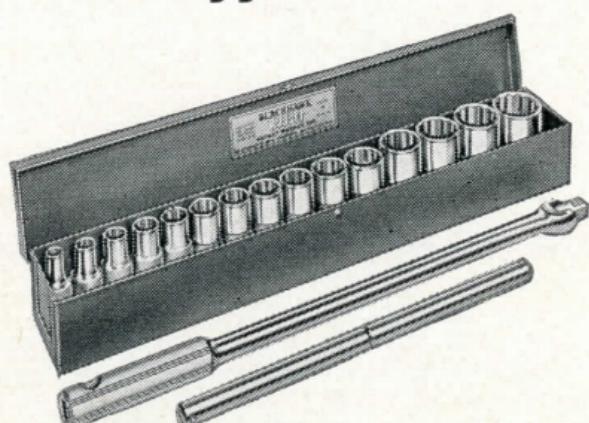
No. 30K Set. 30 Nuggets in CA Case.

No. 17K Nugget Set

Seventeen-piece assortment with popular socket sizes plus hinged offset and handle bar. Ideal for service stations, tire shops and truckers. An easy start toward mechanic's complete Nugget equipment. Furnished in trim red T case, size $18\frac{1}{4}$ " x $2\frac{3}{4}$ " x $1\frac{1}{8}$ ".

No. 17K Set. 17 Nuggets in T Case.

See Page 29 for Contents of Sets.



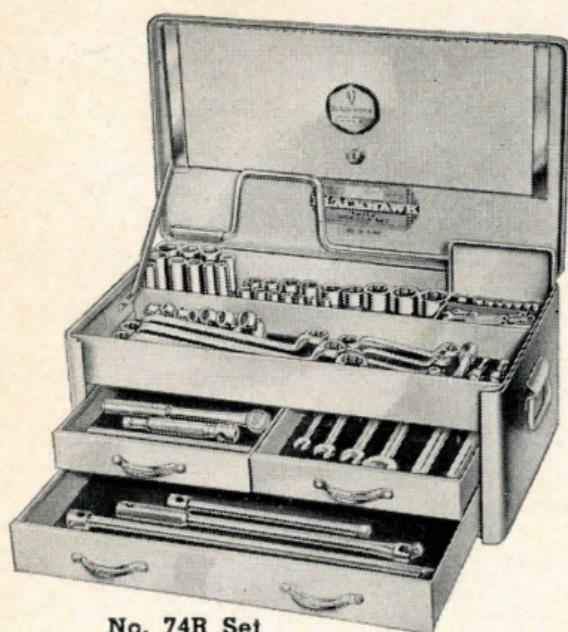
CONTENTS OF NUGGET SETS

No.	Description	17K	30K	77L	77K	50B	99DD
35110	5/8" Sq'l Hex Sk't.....	1	1	1	1	1	1
35112	3/8" Db'l Hex Sk't.....	1	1	1	1	1	1
35114	7/8" Db'l Hex Sk't.....	1	1	1	1	1	1
35116	1/2" Db'l Hex Sk't.....	1	1	1	1	1	1
35118	9/16" Db'l Hex Sk't.....	1	1	1	1	1	1
35119	5/16" Db'l Hex Sk't.....	1	1	1	1	1	1
35120	5/8" Db'l Hex Sk't.....	1	1	1	1	1	1
35121	21/32" Db'l Hex Sk't.....	1	1	1	1	1	1
35122	11/16" Db'l Hex Sk't.....	1	1	1	1	1	1
35124	3/4" Db'l Hex Sk't.....	1	1	1	1	1	1
35126	13/16" Db'l Hex Sk't.....	1	1	1	1	1	1
35128	7/8" Db'l Hex Sk't.....	1	1	1	1	1	1
35130	15/16" Db'l Hex Sk't.....	1	1	1	1	1	1
35132	1" Db'l Hex Sk't.....	1	1	1	1	1	1
35134	11/16" Db'l Hex Sk't.....	1	1	1	1	1	1
35136	11/8" Db'l Hex Sk't.....	—	—	—	—	—	—
35140	11/4" Db'l Hex Sk't.....	—	—	—	—	—	—
35212	3/8" Db'l Sq. Sk't.....	—	—	—	—	1	—
35214	7/16" Db'l Sq. Sk't.....	—	—	—	—	1	1
35216	1/2" Db'l Sq. Sk't.....	—	1	1	1	1	1
35218	9/16" Db'l Sq. Sk't.....	—	1	1	1	1	1
35220	5/8" Db'l Sq. Sk't.....	—	1	1	1	1	1
35224	3/4" Db'l Sq. Sk't.....	—	—	—	—	1	—
35314	7/8" Long Db'l Hex Sk't.....	—	—	—	—	1	1
35316	1/2" Long Db'l Hex Sk't.....	—	—	—	—	1	1
35318	9/16" Long Db'l Hex Sk't.....	—	1	—	—	1	1
35320	5/8" Long Db'l Hex Sk't.....	—	—	—	—	1	1
35322	11/16" Long Db'l Hex Sk't.....	—	—	—	—	1	1
35324	3/4" Long Db'l Hex Sk't.....	—	—	—	—	1	1
35326	13/16" Long Db'l Hex Sk't.....	—	1	—	—	1	1
35328	7/8" Long Db'l Hex Sk't.....	—	1	—	—	1	1
35330	15/16" Long Db'l Hex Sk't.....	—	—	—	—	1	1
35332	1" Long Db'l Hex Sk't.....	—	1	—	—	1	1
35336	11/8" Long Db'l Hex Sk't.....	—	—	—	—	1	1
35414	1/4" Univ. Jt. Sk't, Db'l Hex	—	—	—	—	1	1
35416	1/2" Univ. Jt. Sk't, Db'l Hex	—	—	—	—	1	1
35418	9/16" Univ. Jt. Sk't, Db'l Hex	—	—	—	—	1	1
35420	5/8" Univ. Jt. Sk't, Db'l Hex	—	—	—	—	1	1
35422	11/16" Univ. Jt. Sk't, Db'l Hex	—	—	—	—	1	1
35424	3/4" Univ. Jt. Sk't, Db'l Hex	—	—	—	—	1	1
39965	Screw Driver, .035"x1/4"	—	—	—	—	1	1
39966	Screw Driver, .040"x1 1/2"	—	—	—	—	1	1
39971	Screw Driver, No. 2 Phillips ..	—	—	—	—	—	1
39972	Screw Driver, No. 3 Phillips ..	—	—	—	—	—	1
39975	Torkflash Tension Wrench ..	—	—	—	1	—	1
39976	Grip Handle, 5 1/2" long	—	—	—	—	1	1
39977	Speed Ball Handle, 8" long ..	—	—	—	—	1	—
39978	Universal Joint	—	1	1	1	1	1
39979	Drag Link Socket	—	1	1	1	1	1
39981	18" Extension	—	—	—	—	—	1
39982	3" Extension	—	—	—	—	—	1
39983	6" Extension Bar	—	1	1	1	1	1
39984	Hinged Offset, 7 1/4" long	—	—	—	—	—	1
39985	Hinged Offset, 15" long	1	1	1	1	1	1
39986	Handle Bar	—	1	1	1	1	1
39990	10" Extension Bar	—	1	1	1	1	1
39996	Two-Length Ratchet	—	—	1	1	—	—
39997	Free Wheeling Ratchet	—	1	—	—	1	1
39999	Brace, 16" long	—	1	1	1	1	1



AVIATION SETS

Nos. 74DD, 74DS and 74R Sets



No. 74R Set

Here is Wrench equipment for the aviation mechanic — designed for faster, easier work in close quarters. Sets were made up after extensive and thorough research by Blackhawk Engineers, and include socket sizes and designs specifically developed for aircraft assembly and maintenance work.

Aviation sets are built around famous double-duty Nugget wrenches of Hexite steel—which eliminate duplication of combination $\frac{3}{8}$ " and $\frac{1}{2}$ " drive sets and save you up to 42% on original tool outlay. All Nugget wrenches have exclusive Blackhawk "Lock-On" feature, which prevents socket sticking on units or dropping into assemblies—yet releases at the touch of your thumb.

The 74DD, 74DS and 74R sets all contain the same number of double-duty Nuggets—and in addition, have the $\frac{1}{4}$ " square drive Nuggies set for the more intricate assembly and adjustment work. Also included in these three large sets are the new Aero-Type spark plug sockets with synthetic inserts, and $\frac{11}{32}$ " Hex socket for No. 8 Machine bolts.

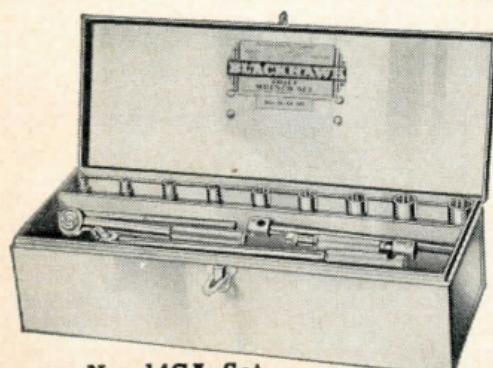
No. 74DD set has the ultra-smart DD Wrench bench described on page 26; 74DS the Wheeled DS stand shown on page 33; and the 74R, the streamlined and compact R Case illustrated above.

No. 74DD Set Complete in DD Stand.

No. 74DS Set Complete in DS Stand.

No. 74R Set Complete in R Case.

No. 14CA Set



No. 14CA Set

Here is just the set for young mechanics and apprentices that are interested in getting the necessary wrenches for a starter at a minimum cash outlay. Contains the five most vital handles and attachments and nine essential sockets—complete in radiant red

case that will house future additions to the Nugget family.

No. 14CA Set Complete in CA Case.

BLACKHAWK

Handy

No.	Description	14CA	74R	74DS	74DD
Handles and Attachments					
24995	Grip Handle	—	1	1	1
24996	Extension	—	1	1	1
24997	Handle Bar	—	1	1	1
24999	Hinged Offset	—	1	1	1
39965	Regular Screw Driver	—	1	1	1
39966	Regular Screw Driver	—	1	1	1
39976	Grip Handle	—	1	1	1
39981	18" Extension	—	1	1	1
39982	3" Extension	—	1	1	1
39983	6" Extension	1	1	1	1
39985	15" Hinged Offset	1	1	1	1
39986	Handle Bar	1	1	1	1
39990	10" Extension	1	1	1	1
39996	Two-Length Ratchet	1	1	1	1
39999	Brace	—	1	1	1
N-5	Plastic Case	—	1	1	1
1/4" Square Drive Sockets					
21006	5/16" Single Hex	—	1	1	1
21007	3/8" Single Hex	—	1	1	1
21008	1/4" Single Hex	—	1	1	1
21009	9/32" Single Hex	—	1	1	1
21010	15/64" Single Hex	—	1	1	1
21011	11/32" Single Hex	—	1	1	1
21012	3/8" Double Hex	—	1	1	1
21014	7/16" Double Hex	—	1	1	1
7/16" Square Drive Sockets					
35110	5/16" Single Hex	—	1	1	1
35111	11/32" Single Hex	—	1	1	1
35112	3/8" Double Hex	1	1	1	1
35114	7/16" Double Hex	1	1	1	1
35116	1/2" Double Hex	1	1	1	1
35118	9/16" Double Hex	1	1	1	1
35120	5/8" Double Hex	1	1	1	1
35122	11/8" Double Hex	1	1	1	1
35124	3/4" Double Hex	1	1	1	1
35126	13/16" Double Hex	1	1	1	1
35128	7/8" Double Hex	1	1	1	1
35130	15/16" Double Hex	—	1	1	1
35132	1" Double Hex	—	1	1	1
35134	1 1/16" Double Hex	—	1	1	1
35136	1 1/8" Double Hex	—	1	1	1
35140	1 1/4" Double Hex	—	1	1	1
Long Spark Plug Sockets					
35314	7/8" Double Hex	—	1	1	1
35316	1/2" Double Hex	—	1	1	1
35518	9/16" Single Hex	—	1	1	1
35520	5/8" Single Hex	—	1	1	1
35522	11/16" Single Hex	—	1	1	1
35524	3/4" Single Hex	—	1	1	1
35526	13/16" Single Hex	—	1	1	1
35528	7/8" Single Hex	—	1	1	1
35530	1 1/8" Single Hex	—	1	1	1
35532	1" Single Hex	—	1	1	1
Universal Joint Sockets					
35412	3/8" Double Hex	—	1	1	1
35414	7/16" Double Hex	—	1	1	1
35416	1/2" Double Hex	—	1	1	1
35418	9/16" Double Hex	—	1	1	1
35420	5/8" Double Hex	—	1	1	1
35422	11/16" Double Hex	—	1	1	1
35424	3/4" Double Hex	—	1	1	1
Half and Halves					
15641	7/8"	—	1	1	1
15642	1/4"	—	1	1	1
15643	9/32"	—	1	1	1
15644	5/16"	—	1	1	1
15645	11/32"	—	1	1	1
15646	3/8"	—	1	1	1
Short Box Types					
15612	3/8"-7/16"	—	1	1	1
15613	1/2"-9/16"	—	1	1	1
15614	5/8"-11/16"	—	1	1	1
Long Box Types					
15625	3/4"-25/32"	—	1	1	1
15626	13/16"-7/8"	—	1	1	1
15627	15/16"-1"	—	1	1	1
Hexite Open Ends					
4721	5/16"-3/8"	—	1	1	1
4725	7/16"-1/2"	—	1	1	1
4727	9/16"-5/8"	—	1	1	1
4730A	11/16"-13/16"	—	1	1	1
4731A	3/4"-7/8"	—	1	1	1
4033C	1 1/8"-1"	—	1	1	1

WRENCH SETS

Master Mechanic Sets

New R Case—Modern Inside and Out

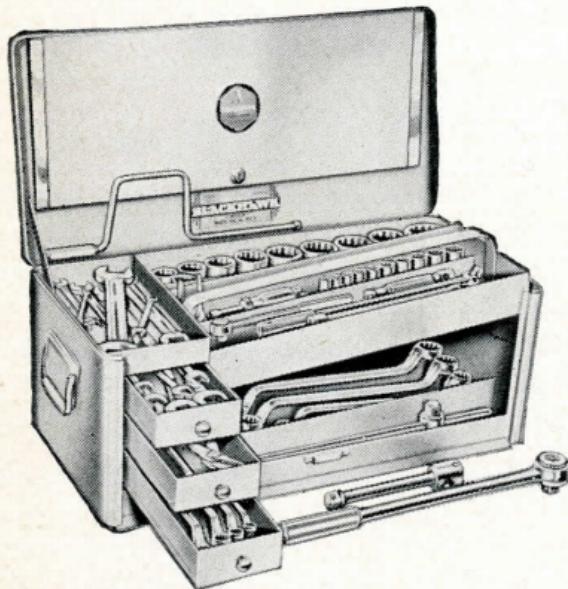


These modern, well designed R and W cases keep your tools in one place—eliminates costly "tool-hunting"—your tools are where you want them when you want them. Finished in beautiful red with chrome drawer handles and trimmings. R Case illustrated at left—W case shown below.

The big tool assortments available with the 70R, 90R and 100W (either 70, 90 or 100 pieces) are the most superb matched assortments of regular wrenches the master mechanic can buy. A full range of sockets in all popular drives—plus all important socket handles, box-type and open-end wrenches—give the proud owner a one-way ticket to a better job and more money in the bank. See pages 34 and 35 for contents of following sets:

- No. 70R Set 70 pieces in R Case.
- No. 90R Set 90 pieces in R Case.
- No. 100W Set 100 pieces in W Case.

Tractor & Construction Wrench Set



A complete and approved tractor and construction wrench set. Patterned after a set that Blackhawk has been furnishing one of the major tractor manufacturers for years. Will handle all of the major jobs on popular tractor models or contractors' equipment. Made up of famous double-duty Nuggets— $\frac{3}{4}$ " drive sockets and handles, Tappet and Hexite Open ends and Box Types—all packed in a brilliant red, ultra modern W case.

Plenty of space in W Case for extras.
No. 52W Set Complete in W Case.

See Pages 34 & 35 for Contents of Set.

BLACKHAWK

Handy

WRENCH SETS

New Master Mechanic Set

The Red Rover—Model 100DS



Here's a "natural" for the efficient shop. Scoot the Red Rover to the job and you have all tools and necessary equipment at your finger-tips. Customers will know they are served by a top-notch mechanic who does not run up a time-charge by walking around the shop to find scattered tools.

A great time saver for industrial maintenance men who must move all their tools and equipment to any spot in the plant.

This rolling workshop comes with assortment of 100 selected Blackhawk tools in its fine roomy drawers. The DS Stand is 32½" high, 30½" wide and 17½" deep. All drawers slide on rollers. Black ribbed-rubber matting on top prevents case or tools from marring finish. Double-doors with a built-in glove compartment type lock makes it a beautiful, fully enclosed stand.

Rubber-tired casters glide the Red Rover over any floor—silently and easily. Drawers have subdivided interiors for keeping sockets and handles in order. This sturdy, welded-steel stand wheels tools and other equipment right to the job, saving countless trips to distant work benches.

There's no surer way to perform better work, get in solid with the customers and cinch your job than to own one of these glorious, complete wrench sets.

No. 100DS Set Complete in DS Stand.

See Pages 34 & 35 for Contents of 100DS.

Contents of Sets

TOOLS IN SETS:

100W

No.	Description	52W	70R	90R	100DS
-----	-------------	-----	-----	-----	-------

Extra Small Series, 1/4" Square Drive

24997	Handle Bar	—	1	1	1
24999	Hinged Offset	—	1	1	1
21006	1/8" Single Hex Socket	—	1	1	1
21007	5/32" Single Hex Socket	—	1	1	1
21008	1/4" Single Hex Socket	—	1	1	1
21009	9/32" Single Hex Socket	—	1	1	1
21010	5/16" Single Hex Socket	—	1	1	1
21011	11/32" Single Hex Socket	—	1	1	1
21012	3/8" Double Hex Socket	—	1	1	1
21014	7/16" Double Hex Socket	—	1	1	1
N-5	Plastic Case	—	1	1	1

Small Series, 3/8" Square "Lock-On" Drive

34981	Free Wheeling Ratchet	—	1	1	1
34982	Speeder Handle	—	1	1	1
34984	10" Extension	—	1	1	1
34985	Handle Bar	—	1	1	1
34986	Hinged Offset	—	1	1	1
34990	Release Key	—	1	1	1
34991	Screw Driver	—	1	1	1
34993	Universal Joint	—	1	1	1
34997	Grip Extension	—	1	1	1
30010	5/16" Single Hex Socket	—	—	1	1
30012	3/8" Double Hex Socket	—	1	1	1
30014	7/16" Double Hex Socket	—	1	1	1
30016	1/2" Double Hex Socket	—	1	1	1
30018	9/16" Double Hex Socket	—	1	1	1
30020	5/8" Double Hex Socket	—	1	1	1
30022	11/16" Double Hex Socket	—	1	1	1
30024	3/4" Double Hex Socket	—	1	1	1
30216	1/2" Db'l Hex Univ. Joint Sk't..	—	—	—	1
30218	9/16" Db'l Hex Univ. Joint Sk't..	—	—	—	1
30220	5/8" Db'l Hex Univ. Joint Sk't..	—	—	—	1

Nugget Series, 7/16" Square "Lock-On" Drive

12002	7" Universal Pliers	1	—	—	—
39965	Regular Screw Driver	1	—	—	—
39966	Regular Screw Driver	1	—	—	—
39976	Grip Handle	1	—	—	—
39978	Universal Joint	1	—	—	—
39983	6" Extension	1	—	—	—
39985	15" Hinged Offset	1	—	—	—
39986	Handle Bar	1	—	—	—
39990	10" Extension	1	—	—	—
39996	Ratchet Handle	1	—	—	—
39999	Brace Handle	1	—	—	—
35114	7/16" Double Hex Socket	1	—	—	—
35116	1/2" Double Hex Socket	1	—	—	—
35118	9/16" Double Hex Socket	1	—	—	—
35120	5/8" Double Hex Socket	1	—	—	—
35122	11/16" Double Hex Socket	1	—	—	—
35124	3/4" Double Hex Socket	1	—	—	—
35126	13/16" Double Hex Socket	1	—	—	—
35128	7/8" Double Hex Socket	1	—	—	—
35130	15/16" Double Hex Socket	1	—	—	—
35132	1" Double Hex Socket	1	—	—	—

Standard Series, 1/2" Square "Lock-On" Drive

49978	Universal Joint	—	1	1	1
49979	Screw Driver	—	1	1	1
49983	6" Extension	—	1	1	1
49985	Hinged Offset	—	1	1	1
49986	Handle Bar	—	1	1	1
49990	10" Extension	—	1	1	1
49997	Free Wheeling Ratchet	—	1	1	1
49999	Brace, Handle	—	1	1	1
40114	7/16" Double Hex Socket	—	1	1	1
40116	1/2" Double Hex Socket	—	1	1	1
40118	9/16" Double Hex Socket	—	1	1	1
40119	5/8" Double Hex Socket	—	—	1	1
40120	13/16" Double Hex Socket	—	1	1	1
40122	11/16" Double Hex Socket	—	1	1	1
40124	3/4" Double Hex Socket	—	1	1	1
40125	25/32" Double Hex Socket	—	—	1	1
40126	13/16" Double Hex Socket	—	1	1	1
40128	7/8" Double Hex Socket	—	1	1	1
40130	15/16" Double Hex Socket	—	1	1	1
40132	1" Double Hex Socket	—	1	1	1

(Continued on next page)

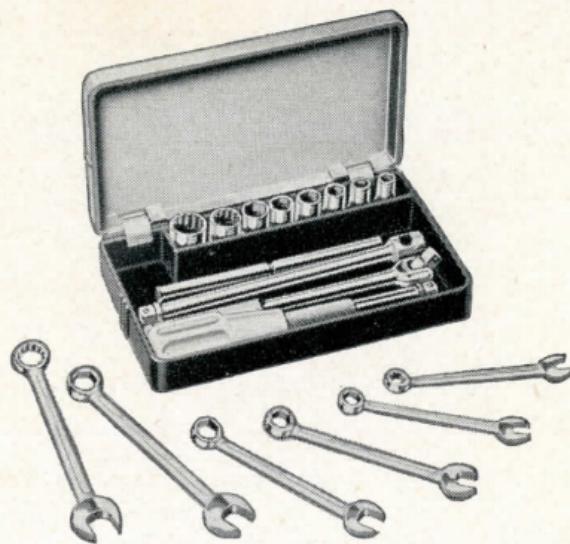
Contents of Sets—(Con't.)

TOOLS IN SETS:

No.	Description	52W	70R	90R	100W 1000DS
Standard Series, 1/2" Square "Lock-On" Drive					
40134	1 $\frac{1}{16}$ " Double Hex Socket	—	1	1	1
40212	3/8" Double Square Socket	—	—	—	1
40214	7/16" Double Square Socket	—	1	1	1
40216	1/2" Double Square Socket	—	1	1	1
40218	9/16" Double Square Socket	—	1	1	1
40220	5/8" Double Square Socket	—	1	1	1
40224	3/4" Double Square Socket	—	—	1	1
40316	1/2" Long Db'l Hex Sk't	—	—	—	1
40318	9/16" Long Db'l Hex Sk't	—	1	1	1
40320	5/8" Long Db'l Hex Sk't	—	—	—	1
40324	3/4" Long Db'l Hex Sk't	—	—	—	1
40326	1 $\frac{1}{16}$ " Long Db'l Hex Sk't	—	1	1	1
40328	7/8" Long Db'l Hex Sk't	—	1	1	1
40332	1" Long Db'l Hex Sk't	—	1	1	1
40336	1 $\frac{1}{8}$ " Long Db'l Hex Sk't	—	—	—	1
Heavy Duty Series, 3/4" Square "Lock-On" Drive					
69987	Ratchet	1	—	—	1
69995	8 1/2" Extension	1	1	1	1
69996	Handle Bar	—	1	1	1
69997	18" Sliding Offset	1	—	—	—
69998	Hinged Offset	—	1	1	1
60034	1 $\frac{1}{16}$ " Db'l Hex Sk't	1	—	—	—
60036	1 $\frac{1}{8}$ " Db'l Hex Sk't	1	1	1	1
60040	1 $\frac{1}{4}$ " Db'l Hex Sk't	1	1	1	1
60042	1 $\frac{5}{16}$ " Db'l Hex Sk't	1	—	—	—
60044	1 $\frac{3}{8}$ " Db'l Hex Sk't	—	1	1	1
60046	1 $\frac{1}{16}$ " Db'l Hex Sk't	—	1	1	1
60048	1 $\frac{1}{2}$ " Db'l Hex Sk't	1	1	1	1
60052	1 $\frac{5}{16}$ " Db'l Hex Sk't	1	1	1	1
60054	1 $\frac{11}{16}$ " Db'l Hex Sk't	1	—	—	—
60056	1 $\frac{3}{4}$ " Db'l Hex Sk't	1	—	—	—
60058	1 $\frac{13}{16}$ " Db'l Hex Sk't	—	—	1	1
60060	1 $\frac{7}{8}$ " Db'l Hex Sk't	1	—	—	—
60064	2" Db'l Hex Sk't	1	—	—	—
Short Double Offset Box-Type Wrenches					
15612	3/8" & 7/16" Double Hex	1	1	1	1
15613	1/2" & 9/16" Double Hex	—	1	1	1
15614	5/8" & 11/16" Double Hex	—	1	1	1
Long Double Offset Box-Type Wrenches					
15623	1/2" & 9/16" Double Hex	1	—	—	—
15624	5/8" & 11/16" Double Hex	1	—	—	—
15625	3/4" & 13/16" Double Hex	1	1	1	1
15619	7/8" & 15/16" Double Hex	1	—	—	—
15626	13/16" & 7/8" Double Hex	—	1	1	1
15627	15/16" & 1" Double Hex	—	—	1	1
15629	1" & 1 $\frac{1}{16}$ " Double Hex	1	—	—	—
15630	1 $\frac{1}{8}$ " & 1 $\frac{1}{4}$ " Double Hex	1	—	—	—
Tappet Open-End Wrenches					
422	1/2" & 9/16" Tappet Wrench	2	—	2	2
424	5/8" & 11/16" Tappet Wrench	2	—	2	2
426	3/4" & 7/8" Tappet Wrench	2	—	2	2
Open-End Wrenches					
4020	1/4" & 5/16" O. E. Wrench	1	—	—	—
4721	1 $\frac{1}{16}$ " & 3/8" O. E. Wrench	—	—	1	1
4723	3/8" & 7/16" O. E. Wrench	1	—	—	—
4725	7/16" & 1/2" O. E. Wrench	—	—	1	1
4725B	1/2" & 9/16" O. E. Wrench	1	—	—	—
4727	9/16" & 5/8" O. E. Wrench	1	—	1	1
4730A	11/16" & 1 $\frac{1}{16}$ " O. E. Wrench	1	—	1	1
4731A	3/4" & 7/8" O. E. Wrench	1	—	1	1
4033C	1 $\frac{5}{16}$ " & 1" O. E. Wrench	1	—	1	1
4737	1 $\frac{1}{8}$ " & 1 $\frac{1}{4}$ " O. E. Wrench	1	—	—	—
Ignition Open-End Wrenches					
H10	3/8" & 7/32" Ignition Wrench	—	—	1	1
H12	1/4" & 9/32" Ignition Wrench	—	—	1	1
H14	5/16" & 11/32" Ignition Wrench	—	—	1	1
H16	3/8" & 7/16" Ignition Wrench	—	—	1	1

"NUGGIES"

New Miniature Wrench Sets



Feast your eyes on these brand new NUGGIES—the thinnest, lightest and toughest midget $\frac{1}{4}$ " drive wrenches ever seen. Hexite steel does the trick—look at those trim, slim handles, the graceful but tough sockets, the startling new miniature open-end and box-type sextet. Yes sir—Nuggies are first choice for carburetor, magneto, ignition and other delicate jobs.

Sockets range from $\frac{3}{16}$ " to $\frac{7}{16}$ "—made of famous Hexite Steel with the same fine construction as their big Nugget brothers—and there's a Hinged Offset, Handle Bar, Insulated Grip Handle and Extension Bar.

Miniature half and half's, openings $\frac{7}{32}$ " to $\frac{3}{8}$ ", the neatest, lightest wrenches on the market—they're patterned after the famous streamlined Hexite Open-Ends.

This complete, handy assortment of $\frac{1}{4}$ " series tools is packed in a beautiful red and black plastic case fitted with patented hinges. Just the right size for carrying in your shop coat pocket.

18ND Contents

21006	$\frac{3}{16}$ " Single Hex Sk't	24997	Handle Bar
21007	$\frac{7}{32}$ " Single Hex Sk't	24996	Extension Bar
21008	$\frac{1}{4}$ " Single Hex Sk't	24995	Grip Handle
21009	$\frac{9}{32}$ " Single Hex Sk't	15641	$\frac{7}{32}$ " Half & Half
21010	$\frac{5}{16}$ " Single Hex Sk't	15642	$\frac{1}{4}$ " Half & Half
21011	$\frac{11}{32}$ " Single Hex Sk't	15643	$\frac{9}{32}$ " Half & Half
21012	$\frac{3}{8}$ " Db'l Hex Sk't	15644	$\frac{15}{32}$ " Half & Half
21014	$\frac{7}{16}$ " Db'l Hex Sk't	15645	$\frac{11}{32}$ " Half & Half
24999	Hinged Offset	15646	$\frac{3}{8}$ " Half & Half
N-5 Plastic Case, 5 $\frac{1}{2}$ " long, 3 $\frac{9}{32}$ " wide, 1 $\frac{3}{16}$ " high.			

No. 18ND Set 18 pieces in N-5 Case.

10ND Contents

21006	$\frac{1}{8}$ " Single Hex Sk't	21011	$\frac{11}{32}$ " Single Hex Sk't
21007	$\frac{5}{32}$ " Single Hex Sk't	21012	$\frac{3}{8}$ " Db'l Hex Sk't
21008	$\frac{1}{4}$ " Single Hex Sk't	21014	$\frac{7}{16}$ " Db'l Hex Sk't
21009	$\frac{9}{32}$ " Single Hex Sk't	24999	Hinged Offset
21010	$\frac{13}{32}$ " Single Hex Sk't	24997	Handle Bar
N-5 Plastic Case, 5 $\frac{1}{2}$ " long, 3 $\frac{9}{32}$ " wide, 1 $\frac{3}{16}$ " high.			

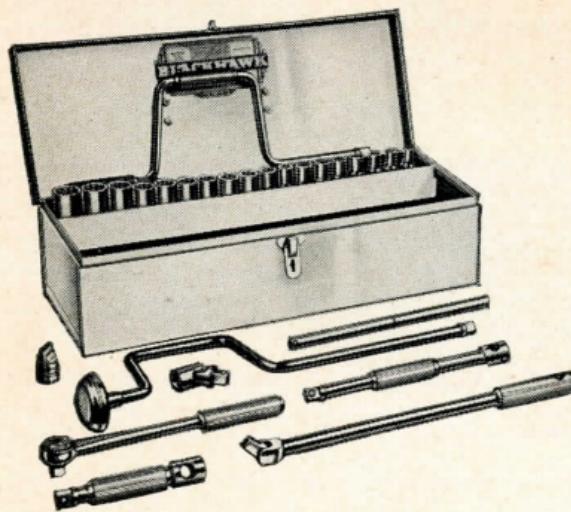
No. 10ND Set 10 pieces in N-5 Case.

See Page 8 for New No. 24991 $\frac{1}{4}$ " drive ratchet.

See Page 41 for No. 15738 $\frac{15}{64}$ " half & half.

WRENCH SETS

General Utility—30CD



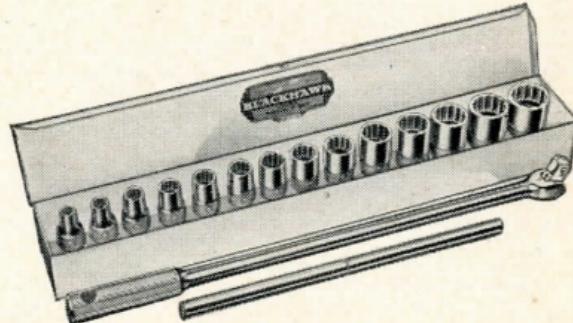
A good all around assortment for general work. Packed in red enameled CA Case, 20 $\frac{1}{8}$ " long, 7 $\frac{3}{8}$ " wide, 5 $\frac{1}{2}$ " high. All units are chrome plated and have standard $\frac{1}{2}$ " square "Lock-On" drive. In neat appearance and range this set is all any mechanic could

desire. A great favorite for work on construction machinery, tractors and other farm implements.

No. 30CD Set Complete in CA Case.

17TD and 13PD Sets

17TD has complete range of thin wall sockets. Packed with hinged offset and handle bar in red enameled "T" case, 18 $\frac{1}{4}$ " long, 12 $\frac{3}{4}$ " wide, 1 $\frac{3}{16}$ " high.

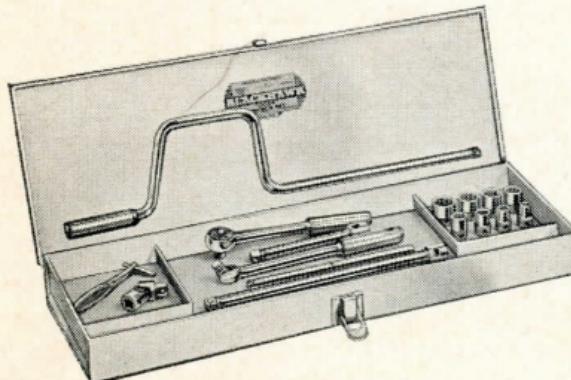


13PD is similar with four less sockets and shorter hinged offset. In general use around service stations, or as emergency kits in trucks and buses.

No. 17TD Set Complete in T Case.

No. 13PD Set Complete in T Case.

Repair Service—16QD



A complete set of thin wall $\frac{3}{8}$ " "Lock-On" drive sockets and proper handles, including "Free Wheeling" ratchet. For close work up to $\frac{3}{4}$ " nut sizes on modern cars and planes. (For greater range in close work see Nugget

sets on pages 26 to 29.) Oil burner, air conditioning and refrigerator service repair men buy this handy set. Packed in red enameled Q case—20" long, 6 $\frac{3}{4}$ " wide and 1 $\frac{3}{16}$ " high.

No. 16QD Set Complete in Q case.

See Page 39 for Contents of Sets.

WRENCH SETS

Heavy Duty Set—12SD



No. 12DS Set Complete in CA Case.

Mechanics in industry and construction, truck and bus shops endorse this handy set of heavy duty wrenches. No chance of sockets slipping off, all units have $\frac{3}{4}$ " Square "Lock-On" drive. Set packed in CA case, $20\frac{1}{8}$ " long, $7\frac{3}{8}$ " wide, $5\frac{1}{2}$ " high.

Heavy Duty Set—14BD

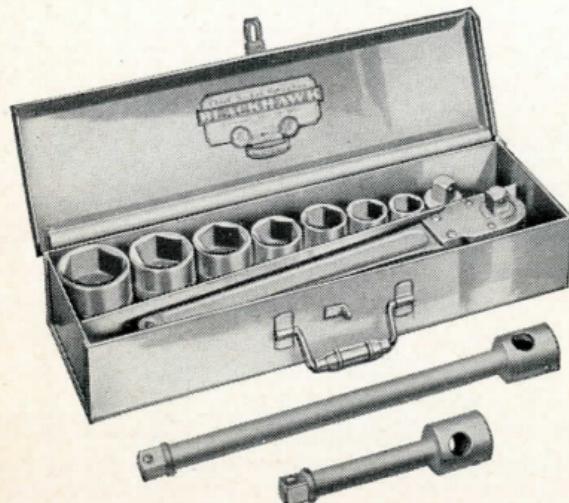


units in this set have $\frac{3}{4}$ " square "Lock-On" drive. CA Case same as in 12SD.

No. 14BD Set Complete in CA Case.

The most popular set of powerful heavy duty handles and sockets for repair and assembly of mine equipment, industrial machinery, trucks, tractors, combines, farm and power equipment, graders, pavers and other machine units. No chance of socket slipping from handle end for all

Extra Heavy Duty Set—12ED



For industrial machinery installation and maintenance. 1" Square "Lock-On" drive for safety, with wide socket range—finished in cadmium. Packed in red enameled case $23\frac{1}{2}$ " long, 7" wide, $4\frac{1}{4}$ " high, with carrying handle.

No. 12ED Set Complete in E Case.

See Page 39 for Contents of Sets.

BLACKHAWK

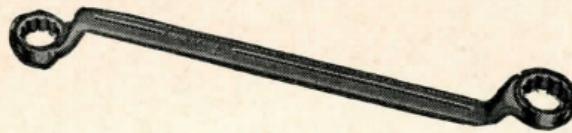
Handy

Contents of Sets

No.	Description	TOOLS IN SETS:			
		30CD	17TD	13PD	16QD
Small Series, 3/8" Square "Lock-On" Drive					
34981	"Free Wheeling" Ratchet	—	—	—	1
34982	18" Speeder	—	—	—	1
34984	10" Extension	—	—	—	1
34985	Handle Bar	—	—	—	1
34986	8" Hinged Offset	—	—	—	1
34987	5" Extension	—	—	—	1
34990	Release Key	—	—	—	1
34993	Universal Joint	—	—	—	1
30010	1/8" Single Hex Socket	—	—	—	1
30012	3/8" Double Hex Socket	—	—	—	1
30014	1/8" Double Hex Socket	—	—	—	1
30016	1/2" Double Hex Socket	—	—	—	1
30018	9/16" Double Hex Socket	—	—	—	1
30020	5/8" Double Hex Socket	—	—	—	1
30022	11/16" Double Hex Socket	—	—	—	1
30024	3/4" Double Hex Socket	—	—	—	1
Standard Series, 1/2" Square "Lock-On" Drive					
49978	Universal Joint	1	—	—	—
49979	Tie Rod Bit	1	—	—	—
49983	6" Extension (with grip)	1	—	—	—
49984	115/8" Hinged Offset	—	—	1	—
49985	155/8" Hinged Offset	1	—	—	—
49986	Handle Bar	1	1	1	—
49987	10" Extension with Grip	1	—	—	—
49988	18" Hinged Offset	—	1	—	—
49992	155/8" Brace	1	—	—	—
49994	19" Speeder	1	—	—	—
49996	Ratchet	1	—	—	—
40112	3/8" Double Hex Socket	1	1	1	—
40114	1/8" Double Hex Socket	1	1	1	—
40116	1/2" Double Hex Socket	1	1	1	—
40118	9/16" Double Hex Socket	1	1	1	—
40119	13/16" Double Hex Socket	1	1	1	—
40120	5/8" Double Hex Socket	1	1	1	—
40121	11/16" Double Hex Socket	1	—	—	—
40122	15/16" Double Hex Socket	1	1	1	—
40124	3/4" Double Hex Socket	1	1	1	—
40125	13/8" Double Hex Socket	1	—	—	—
40126	17/16" Double Hex Socket	1	1	—	—
40128	7/8" Double Hex Socket	1	1	1	—
40130	15/16" Double Hex Socket	1	1	1	—
40132	1" Double Hex Socket	1	1	—	—
40134	11/8" Double Hex Socket	—	1	—	—
40136	11/8" Double Hex Socket	—	1	—	—
40214	7/8" Double Square Socket	1	—	—	—
40216	1/2" Double Square Socket	1	—	—	—
40218	9/16" Double Square Socket	1	—	—	—
40220	5/8" Double Square Socket	1	—	—	—
TOOLS IN SETS:					
No.	Description	12SD	14BD	12ED	
Heavy Duty Series, 3/4" Sq. "Lock-On" Drive					
69994	17" Extension	—	1	—	—
69995	8 1/2" Extension	—	1	—	—
69996	Handle Bar	1	—	—	—
69997	Sliding Offset	—	1	—	—
69998	Hinged Offset	1	—	—	—
69999	Ratchet	—	1	—	—
60032	1" Double Hex Socket	1	1	—	—
60034	1 1/8" Double Hex Socket	1	1	—	—
60036	1 1/8" Double Hex Socket	1	1	—	—
60040	1 1/4" Double Hex Socket	1	1	—	—
60042	1 5/8" Double Hex Socket	1	1	—	—
60044	1 3/8" Double Hex Socket	1	1	—	—
60046	1 7/8" Double Hex Socket	1	1	—	—
60048	1 1/2" Double Hex Socket	1	1	—	—
60052	1 5/8" Double Hex Socket	1	1	—	—
60058	1 13/16" Double Hex Socket	1	1	—	—
60064	2" Double Hex Socket	1	1	—	—
Extra Heavy Duty Series, 1" Square "Lock-On" Drive					
89995	18" Extension	—	—	—	1
89996	9" Extension	—	—	—	1
89997	Handle Bar	—	—	—	1
89998	Offset Adaptor Head	—	—	—	1
89999	Ratchet	—	—	—	1
80040	1 1/4" Single Hex Socket	—	—	—	1
80046	1 1/8" Single Hex Socket	—	—	—	1
80052	1 5/8" Single Hex Socket	—	—	—	1
80058	1 13/16" Single Hex Socket	—	—	—	1
80064	2" Single Hex Socket	—	—	—	1
80070	2 1/8" Single Hex Socket	—	—	—	1
80076	2 3/8" Single Hex Socket	—	—	—	1

BOX WRENCHES

Double Offset—Long



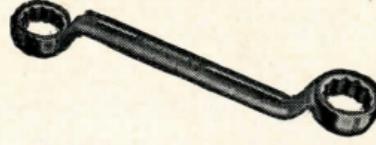
Patterned after the famous "Hexite Open-Ends"—thinner and slimmer for close quarters work and plenty tough. Accurately machined, perfectly balanced and neatly finished.

No.	Opening	Length	No.	Opening	Length
15620	3/4" x 7/8"	12 1/2"	15629	1" x 1 1/8"	16 1/4"
15622	3/8" x 7/8"	7 5/8"	15630	1 1/8" x 1 1/4"	16 1/4"
15623	1/2" x 9/8"	8 5/8"	15829	1 1/4" x 1 3/8"	18 1/2"
15624	5/8" x 1 1/8"	9 3/4"	15830	1 7/8" x 1 5/8"	23"
15625	3/4" x 2 1/2"	11 1/8"	15831	1 13/16" x 2"	24 1/4"
15626	1 1/8" x 7/8"	12 1/2"	15832	2 3/16" x 2 3/8"	26"
15619	7/8" x 1 1/8"	14 1/4"	15833	2 9/16" x 2 3/4"	28"
15627	1 1/8" x 1"	14 1/4"			

No. 19057 Set

Contains the following six long double offset box-types packed in cardboard box: Nos. 15622, 15623, 15624, 15625, 15626, 15627.

Double Offset—Short



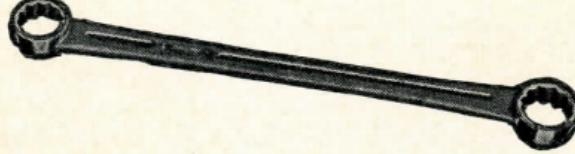
Three short box-types that will fit in your pocket—just right for battery, tire and manifold nuts; starter, generator, water pump and other mountings.

15612	3/8" x 7/8"	4 1/2"		15614	5/8" x 1 1/8"	6"
15613	1/2" x 9/8"	5 1/4"				

No. 19056 Set

Contains all three of the above short box-types, packed in cardboard container.

Angl-Head Style



These neat compact Angl-Heads can be used in places with low overhead clearance. Provide straight line pull on the nut.

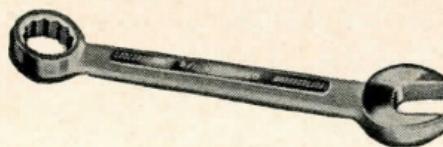
15632	3/8" x 7/8"	7 3/4"		15636	7/8" x 1 1/8"	12 3/4"
15633	1/2" x 9/8"	8 3/4"		15637	1" x 1 1/8"	14 1/2"
15634	5/8" x 1 1/8"	9 3/4"		15638	1 1/8" x 1 1/4"	17"
15635	3/4" x 1 3/8"	11 1/4"		15639	1 7/8" x 1 3/8"	17 3/4"

No. 19058 Set

Contains the following six Angl-Heads: Nos. 15632, 15633, 15634, 15635, 15636 and 15637. Packed in cardboard box.

BOX WRENCHES

Half & Half Style



Combination open-end and box-type in one wrench. A handy double-duty wrench for quick adjustments and tune-up work. Each end has the same size opening, offering a double attack on stubborn nuts. A real service station favorite.

No.	Opening	Length	No.	Opening	Length
15647	7/16"	5"	15650	5/8"	6 1/8"
15648	1/2"	5 1/4"	15651	11/16"	7"
15649	9/16"	5 3/4"	15652	3/4"	8"

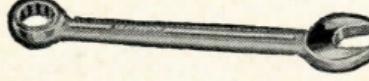
No. 19059 Set

Four of the above Half & Halfs packed in cardboard box. Contains Nos. 15647, 15648, 15649 and 15650.

No. 19074 Set

A complete set of Half & Halfs. Contains No. 15647, 15648, 15649, 15650, 15651 and 15652. Packed in cardboard box.

Miniature Half & Halfs



Here's the latest thing in half and halves. The smallest, lightest wrenches you've ever twirled. Thin and slim—yet plenty tough for their size. Same size opening on both ends.

15641	3/2"	3"	15645	1 1/2"	4 3/16"
15642	1/4"	3"	15646	3/8"	4 3/16"
15643	3/2"	3 1/2"	15738	5/8"	3"
15644	15/16"	3 1/2"			

No. 19086 Set

A set of six of the miniature half and halves shows above, packed in cardboard box. Contains Nos. 15641, 15642, 15643, 15644, 15645 and 15646.

Half Moon Types



The wrench every mechanic needs—it sneaks around corners and in-between or in-betwixt most any place. Just the wrench for generator and starter mountings, manifolds or exhaust nuts and other tricky places.

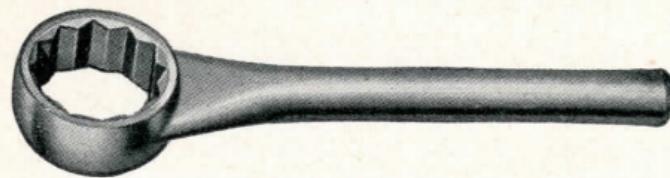
15659	5/8" x 9/16"	7 3/4"
15660	11/16" x 3/4"	7 3/4"

STUB ENDS

Selected Alloy Steel—Cadmium Plated

Heavy duty box wrenches for industrial, construction, truck and tractor work. Excellent for rear axle nuts on trucks because straight-line pull gives greater leverage. Work in close quarters—do not spread—do not burr nuts. Fits where bolts protrude above nut.

Furnished in either straight or offset shanks. Shank locks into substantial handles for long leverage. All double hexagon openings.



Straight Type

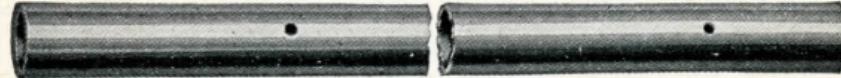
No.	Opening	Use Handle No.	No.	Opening	Use Handle No.
15680	$\frac{1}{8}''$	15741	15691	$1\frac{3}{4}''$	15744
15681	1''	15741	15692	$1\frac{1}{8}''$	15744
15682	$1\frac{1}{8}''$	15742	15693	$1\frac{7}{8}''$	15744
15683	$1\frac{1}{8}''$	15742	15694	2''	15744
15684	$1\frac{1}{4}''$	15742	15695	$2\frac{3}{16}''$	15744
15685	$1\frac{5}{8}''$	15743	15696	$2\frac{1}{4}''$	15745
15686	$1\frac{3}{8}''$	15743	15697	$2\frac{3}{8}''$	15745
15687	$1\frac{7}{16}''$	15743	15698	$2\frac{9}{16}''$	15745
15688	$1\frac{1}{2}''$	15743	15699	$2\frac{3}{4}''$	15745
15689	$1\frac{1}{8}''$	15743	15700	$2\frac{1}{8}''$	15745
15690	$1\frac{5}{8}''$	15743	15701	$3\frac{1}{8}''$	15745



Offset Type

15710	$\frac{1}{8}''$	15741	15721	$1\frac{3}{4}''$	15744
15711	1''	15741	15722	$1\frac{1}{8}''$	15744
15712	$1\frac{1}{8}''$	15742	15723	$1\frac{7}{8}''$	15744
15713	$1\frac{1}{8}''$	15742	15724	2''	15744
15714	$1\frac{1}{4}''$	15742	15725	$2\frac{3}{16}''$	15744
15715	$1\frac{5}{8}''$	15743	15726	$2\frac{1}{4}''$	15745
15716	$1\frac{3}{8}''$	15743	15727	$2\frac{3}{8}''$	15745
15717	$1\frac{7}{16}''$	15743	15728	$2\frac{9}{16}''$	15745
15718	$1\frac{1}{2}''$	15743	15729	$2\frac{3}{4}''$	15745
15719	$1\frac{1}{8}''$	15743	15730	$2\frac{1}{8}''$	15745
15720	$1\frac{5}{8}''$	15744	15731	$3\frac{1}{8}''$	15745

Tubular Handles for Stub-Ends

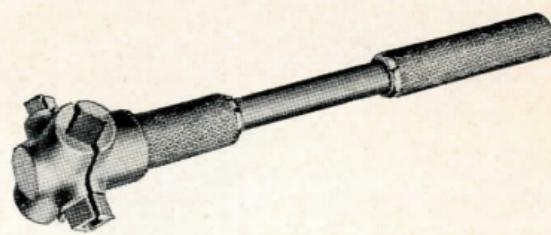


No.	Handle Length	Assembled Length	Outside Dia.	Inside Dia.
15741	15"	23"	$1\frac{3}{8}''$	$\frac{5}{8}''$
15742	18"	24"	$\frac{7}{8}''$	$\frac{11}{16}''$
15743	24"	35"	$1\frac{1}{8}''$	$\frac{7}{8}''$
15744	30"	41"	$1\frac{1}{4}''$	1"
15745	36"	52 $\frac{1}{2}$ "	$1\frac{7}{8}''$	$1\frac{1}{8}''$

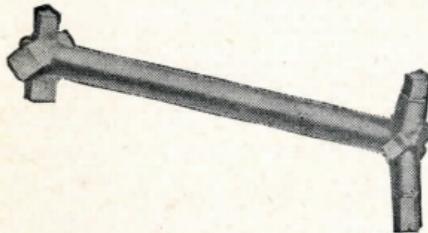
SERVICE TOOLS

The "Adjusto" No. 151

Adjustable to fit the majority of drain plugs, square or hex, male or female. Used universally on all transmissions, differentials, shock absorbers, gas tanks and vacuum tank drain and filler plugs. Jaws adjustable by a twist of thumb on knurled sleeve—not on handle grip as with ordinary wrenches. 9" length—selected steel—cadmium plated. Adjustable sockets and plugs to fit—hex male plugs, $\frac{1}{16}$ " to $1\frac{1}{2}$ "; square male plugs, $\frac{3}{16}$ " to $1\frac{1}{4}$ "; square female openings, $\frac{5}{16}$ " to 1".



The "Multi-Plug" No. 152

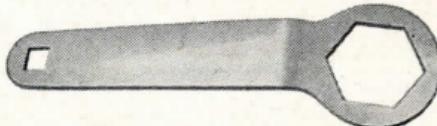


One piece—handy and compact—fits practically all female plugs on every car. Length, 8"—selected steel—heat treated—cadmium plated.

Has the following sized plugs— $\frac{5}{16}$ ", $\frac{11}{32}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{9}{16}$ ", $\frac{5}{8}$ " square; $\frac{7}{16}$ " hexagon.

Ford & Mercury Drain Plug Wrench

No. 15798, fits 1939 and later Ford, Mercury and Zephyr's; 2" hexagon opening. $\frac{9}{16}$ " square opening fits transmission drain and filler plugs in entire Ford group. 10 $\frac{1}{2}$ " offset handle.



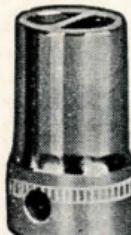
Ford Connecting Rod Socket

The No. 35199, a new $\frac{7}{16}$ " square drive Nugget socket designed for Ford connecting rods. Front of socket is turned down to fit counterbore on rods. Has $\frac{9}{16}$ " single hex opening.



Ford Connecting Rod Socket

No. 40199, $\frac{1}{2}$ " square drive socket for all V-8 connecting rods. Has $\frac{9}{16}$ " double hex opening.

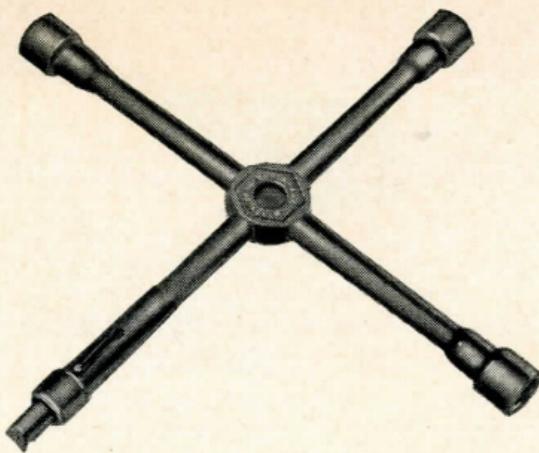


Chevrolet Oil Pan Socket

No. 34992 screw driver socket—fits all Chevrolet oil pans. $\frac{3}{8}$ " square drive.

SERVICE TOOLS

Cross-Type Rim Wrenches



Thin bell-shaped sockets that sneak in back of modern hubs. Extra deep socket construction takes care of extended bolts. Selected steel, cadmium plated.

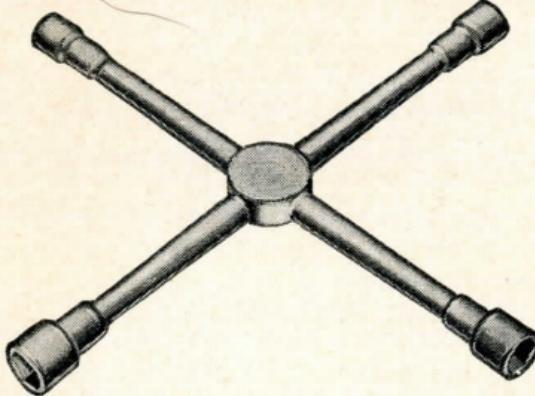
5204Z has built-in hub cap remover in one socket.

Socket sizes, $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{13}{16}$ " and $\frac{7}{8}$ " hexagon.

No. 5204Z With Hub Cap Puller.

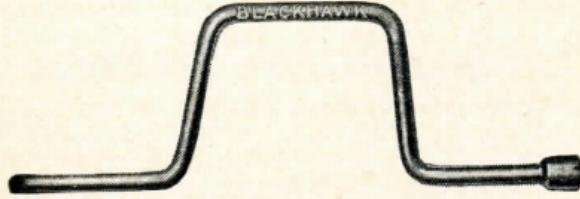
No. 5204X Without Hub Cap Puller.

Red Cross-Type Rim Wrench



No. 15119—Every mechanic, tire dealer and service station can afford one or more of these four-in-one Rim Wrenches. Extra deep bell-shaped sockets in $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{13}{16}$ " and $\frac{7}{8}$ " hex.

Car Owner Rim Wrenches

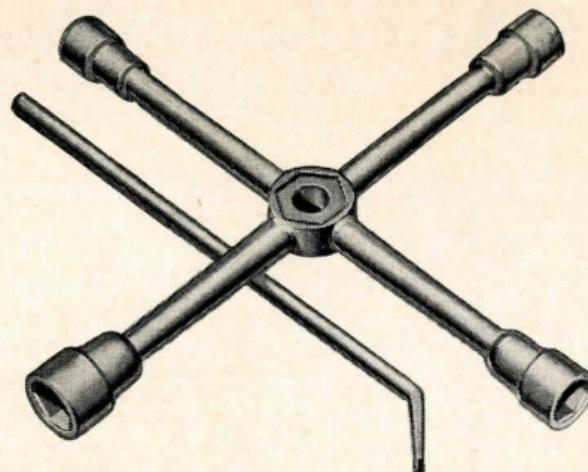


Used car dealers! Equip all your used cars with quality rim wrenches at low cost. All popular sizes. Thin socket walls, cadmium plated.

No.	Socket Size	Stock Dia.	Shank Length	Sweep
5220	$\frac{5}{8}$ "	$\frac{1}{2}$ "	$5\frac{3}{4}$ "	$4\frac{7}{8}$ "
5222	$\frac{13}{16}$ "	$\frac{1}{2}$ "	$5\frac{3}{4}$ "	$4\frac{7}{8}$ "
5224	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$5\frac{3}{4}$ "	$4\frac{7}{8}$ "
5226	$\frac{7}{8}$ "	$\frac{1}{2}$ "	$5\frac{3}{4}$ "	$4\frac{7}{8}$ "
5228	$\frac{7}{8}$ "	$\frac{1}{2}$ "	$5\frac{3}{4}$ "	$4\frac{7}{8}$ "

SERVICE TOOLS

Universal Truck Rim Wrench



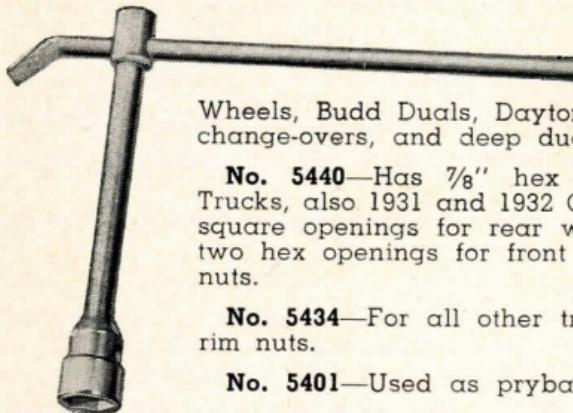
(Cross Type With 6 Socket Sizes)

Handles 90% of all truck rim nuts. Socket sizes $\frac{7}{8}$ ", $1\frac{1}{8}$ ", $1\frac{1}{4}$ ", and $1\frac{1}{2}$ " Hex; $1\frac{5}{8}$ " and $1\frac{3}{8}$ " Square. Back of $1\frac{1}{4}$ " Hex Socket is broached $\frac{13}{16}$ " square for AA Ford and Budd-Michelin rims. $\frac{5}{8}$ " Square broached back of $\frac{7}{8}$ " Hex, for 31-32 Chev. trucks. Has 23" length— $\frac{3}{4}$ " stock handles—hole in center to receive pry bar.

No. 5206 Rim Wrench only.

No. 5401 Pry Bar only.

Truck and Bus Rim Wrenches



No. 5448—For Ford AA Trucks, Budd - Michelin

Wheels, Budd Duals, Dayton Spokesteel Wheels, change-overs, and deep dual discs.

No. 5440—Has $\frac{7}{8}$ " hex opening for 1933-34 Trucks, also 1931 and 1932 Chevrolet Trucks. Has square openings for rear wheel rim studs, and two hex openings for front and rear wheel rim nuts.

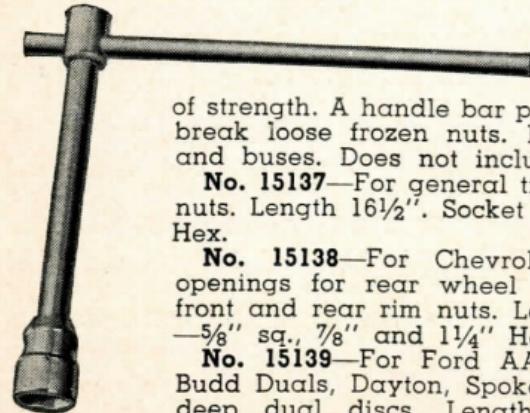
No. 5434—For all other truck, bus and trailer rim nuts.

No. 5401—Used as prybar on tough nuts.

No.	Socket Sizes	Stock Dia.	Length
+5448	$\frac{13}{16}$ " Sq., $1\frac{1}{8}$ " & $1\frac{1}{2}$ " Hex	$\frac{7}{8}$ "	$16\frac{1}{2}$ "
+5440	$\frac{5}{8}$ " Sq., $\frac{7}{8}$ " & $1\frac{1}{4}$ " Hex	$\frac{7}{8}$ "	$16\frac{1}{2}$ "
+5434	$1\frac{1}{8}$ " & $1\frac{3}{8}$ " Hex	$\frac{7}{8}$ "	$16\frac{1}{2}$ "
5401	Pry Bar only	$\frac{3}{4}$ "	20"

[†]Does not include No. 5401 Pry Bar.

Red Cross Rim Wrenches



You can't beat these sturdy rim wrenches on any job requiring a tough pull and plenty

of strength. A handle bar provides extra leverage to break loose frozen nuts. Ideal for trucks, trailers and buses. Does not include 15140 handle bar.

No. 15137—For general truck, bus and trailer rim nuts. Length $16\frac{1}{2}$ ". Socket openings— $\frac{9}{16}$ " and $1\frac{1}{8}$ " Hex.

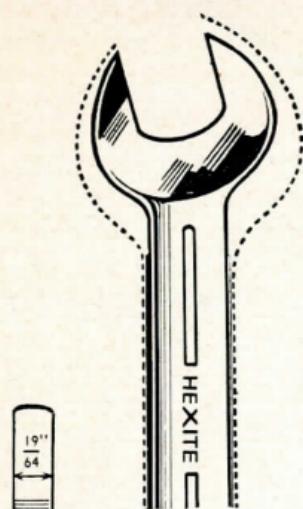
No. 15138—For Chevrolet trucks. Has square openings for rear wheel rim studs and Hex for front and rear rim nuts. Length— $16\frac{1}{2}$ ". Openings— $\frac{5}{8}$ " sq., $\frac{7}{8}$ " and $1\frac{1}{4}$ " Hex.

No. 15139—For Ford AA trucks—Budd-Michelin, Budd Duals, Dayton, Spoke-steel, changeovers and deep dual discs. Length— $16\frac{1}{2}$ ". Openings— $\frac{13}{16}$ " sq., $1\frac{1}{8}$ " and $1\frac{1}{2}$ " Hex.

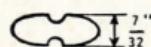
No. 15140—Handle Bar for above wrenches. 18" long, $\frac{3}{4}$ " stock diameter.

HEXITE

LESS WEIGHT AND BULK GREATER LEVERAGE LONGER LIFE



Half size of No. 4729 Hexite Open-End. Dotted line shows size old-style wrench also having $\frac{5}{8}$ " and $\frac{3}{4}$ " openings.

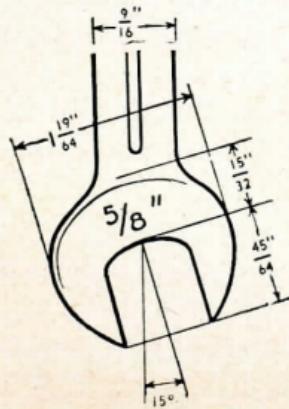


Handle cross-section of No. 4729 (above). Comfortable curved grip. Groove reduces weight.



Side view of No. 4729. Hexite's have thinnest heads on the market.

Half size — $\frac{5}{8}$ " end of No. 4729 (below). Full leverage on square and hex nuts. Pear-shaped jaws do not extend beyond nut — eliminates interference.



Blackhawk - Armstrong Open-Ends are made of HEXITE STEEL — hence their thinner heads; pear-shaped jaws; comfortable, thin handles; lighter weight; better balance and longer wearing qualities. Perfect companions to Nugget Socket Wrenches, also made of Hexite.

BEAUTIFULLY FINISHED

HEXITE Open-Ends sparkle with rich brilliance. Flawless heads are buffed and polished—handles are satin finish. (Ordinary wrenches are usually not polished because high finish emphasizes flaws and defects.)

Each wrench is scientifically heat treated. Openings are accurately milled—and, because of Hexite's hardness, will not round out as easily as ordinary open-ends.

13 HEXITE Open-Ends do the work of 41 odd sizes—saves you 70% on tool outlay—makes work easier and faster.

See next page for complete listings.

OPEN-ENDS

Practical Combinations

HEXITE Open-Ends have size combinations arranged progressively. No improper size combinations and excess weight to retard work and increase tool investment. Following are the 13 Blackhawk-designed Open-Ends—made under the famous Blackhawk-Armstrong trade name:

No.	Milled Openings	Overall Length	Head Thickness
4020	$\frac{1}{4}'' - \frac{5}{16}''$	$4\frac{1}{4}''$	$\frac{9}{16}''$
4721	$\frac{5}{16}'' - \frac{3}{8}''$	$4\frac{3}{4}''$	$\frac{11}{16}''$
4723	$\frac{3}{8}'' - \frac{7}{16}''$	$5\frac{1}{4}''$	$\frac{7}{16}''$
4725	$\frac{7}{16}'' - \frac{1}{2}''$	$5\frac{7}{8}''$	$\frac{15}{16}''$
4725B	$\frac{1}{2}'' - \frac{9}{16}''$	$6\frac{1}{2}''$	$\frac{1}{4}''$
4727	$\frac{9}{16}'' - \frac{5}{8}''$	$7\frac{1}{4}''$	$\frac{17}{16}''$
4729	$\frac{5}{8}'' - \frac{3}{4}''$	$8''$	$\frac{19}{16}''$
4028	$\frac{19}{32}'' - \frac{35}{32}''$	$8''$	$\frac{19}{16}''$
4730A	$\frac{11}{16}'' - \frac{13}{16}''$	$8\frac{3}{4}''$	$\frac{5}{16}''$
4731A	$\frac{3}{4}'' - \frac{7}{8}''$	$9\frac{1}{2}''$	$\frac{5}{16}''$
4033C	$\frac{15}{16}'' - 1''$	$10\frac{1}{2}''$	$\frac{21}{16}''$
4735A	$1\frac{1}{16}'' - 1\frac{1}{8}''$	$11\frac{1}{2}''$	$\frac{23}{16}''$
4737	$1\frac{1}{8}'' - 1\frac{1}{4}''$	$12\frac{1}{2}''$	$\frac{3}{8}''$

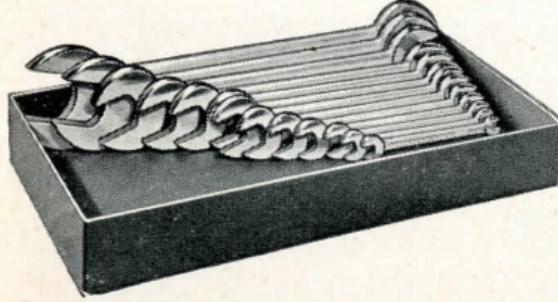
New Hexite Open-End Sets

8CB and 8LR offer the eight most commonly used open-ends. Sets contain one each of the following: Nos. 4723, 4725, 4725B, 4727, 4729, 4028, 4730A and 4731A.



No. 8CB 8 Open-Ends, packed in cardboard box.

No. 8LR 8 Open-Ends, packed in leatherette roll.



13CB and 13LR contain all 13 of the Hexite Open-Ends for complete service on all types of automotive, aviation and industrial equipment.

No. 13CB 13 Open-Ends, packed in cardboard box.

No. 13LR 13 Open-Ends, packed in leatherette roll.

OPEN-ENDS

Miniature Wrenches and Sets



These Miniature Wrenches take the fight out of the stubborn baby nuts. Ideal for every small delicate job.

No.	Milled Opening	Length	Thickness of Head
H-10	$\frac{3}{16}''$ & $\frac{7}{32}''$	2 $\frac{1}{2}''$	$\frac{3}{32}''$
H-12	$\frac{1}{4}''$ & $\frac{9}{32}''$	3 "	$\frac{3}{32}''$
H-14	$\frac{5}{16}''$ & $\frac{11}{32}''$	3 $\frac{3}{4}''$	$\frac{3}{16}''$
H-16	$\frac{3}{8}''$ & $\frac{7}{16}''$	4 $\frac{1}{8}''$	$\frac{7}{32}''$
H-18	$\frac{13}{32}''$ & $\frac{15}{32}''$	4 $\frac{1}{8}''$	$\frac{7}{32}''$

No. 20CB One each of above. In Cardboard Box.

No. 20LR One each of above. In Leatherette Roll.

Ignition Wrenches and Sets

These tools meet with the approval of Ignition experts. All tools are neatly contained in leatherette case.

No.	Size Opening	No.	Size Opening
E-2	$\frac{1}{4}''$ & $\frac{1}{4}''$	E-7	$\frac{3}{16}''$ ($\frac{1}{4}''$)
E-3	$\frac{1}{4}''$ ($\frac{11}{32}''$ & $\frac{9}{32}''$)	E-8	$\frac{7}{32}''$ & $\frac{7}{16}''$
E-4	$\frac{5}{16}''$	E-9	$\frac{1}{2}''$
E-5	$\frac{5}{16}''$	E-10	$\frac{3}{8}''$ & $\frac{13}{32}''$
E-6	$\frac{5}{16}''$	E-11	$\frac{1}{4}''$ & $\frac{9}{32}''$

No. 18CB One each of above. In Cardboard Box.

No. 18LR One each of above. In Leatherette Roll.

Economy Series Tappet Wrenches

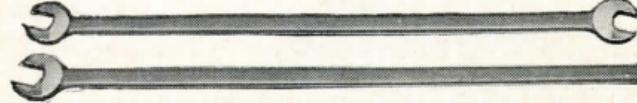
A fine series of reasonably priced tappets, welcomed by every mechanic. Long and thin — they slip in easily where clearance is small. Forged of the best alloy steel — and chromium plated. Openings at 15° angle.

No.	Milled Openings	Length	Thickness of Head
420	$\frac{7}{16}''$ - $\frac{13}{32}''$	8"	$\frac{5}{32}''$
422	$\frac{1}{2}''$ - $\frac{9}{16}''$	8"	$\frac{5}{32}''$
424	$\frac{5}{8}''$ - $\frac{11}{16}''$	8 $\frac{1}{2}''$	$\frac{3}{16}''$
426	$\frac{3}{4}''$ - $\frac{7}{8}''$	9"	$\frac{7}{32}''$

No. 22CB Set of 2 each of Nos. 422, 424, 426. Packed in Cardboard Box.

No. 22LR Same as 22CB, packed in Leatherette Roll.

Special Long Tappet Wrenches



Many new model cars require these long tappet wrenches. 100A and 100B have single end opening. 200AB has double end opening.

100A	$\frac{1}{2}''$	15"	$\frac{3}{16}''$
100B	$\frac{9}{16}''$	15"	$\frac{3}{16}''$
200AB	$\frac{1}{2}''$ - $\frac{9}{16}''$	15"	$\frac{3}{16}''$

(See Pages 46 and 47 for NEW "HEXITE" OPEN-ENDS)

BLACKHAWK SERVES YOU WITH *the only Complete Line of* HYDRAULIC JACKS

Blackhawk introduced the first perfected line of Hydraulic Jacks in 1926. Since then Blackhawk has added many refinements and exclusive adaptations of the Hydraulic Jack principle — as described briefly below. Blackhawk Hydraulic Equipment has millions of users in all automotive, industrial, construction, aviation, machinery and other service fields. See complete catalogs for listings and prices.



HAND JACKS

1 to 75-ton capacity — exclusive combination of features. Every jack tagged with "Service Proved" seal — your assurance of Dependable, Maintenance-Free Performance.

SERVICE JACKS

1½ to 7½-ton capacity. Outstanding features such as built-in spot lights and handle lock. Rugged — dependable, serve every range of road vehicle.



GAUGE-EQUIPPED & INVERTED JACKS

Only Blackhawk manufactures a complete line of Hydraulic Jacks on which gauges of various diameters can be mounted for portable test-work in field, shop and laboratory. Inverted jacks serve in presses and special machinery applications.

"PORTO-POWER" JACKS

Are exclusive Blackhawk creations. Pump is separated from all-directional ram by high-pressure safety hose. Special attachments harness the ram action to do anything the hand can do — but with tons of power! Capacities from 2 to 50 tons.

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World's Largest Manufacturer of Hydraulic Jacks



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